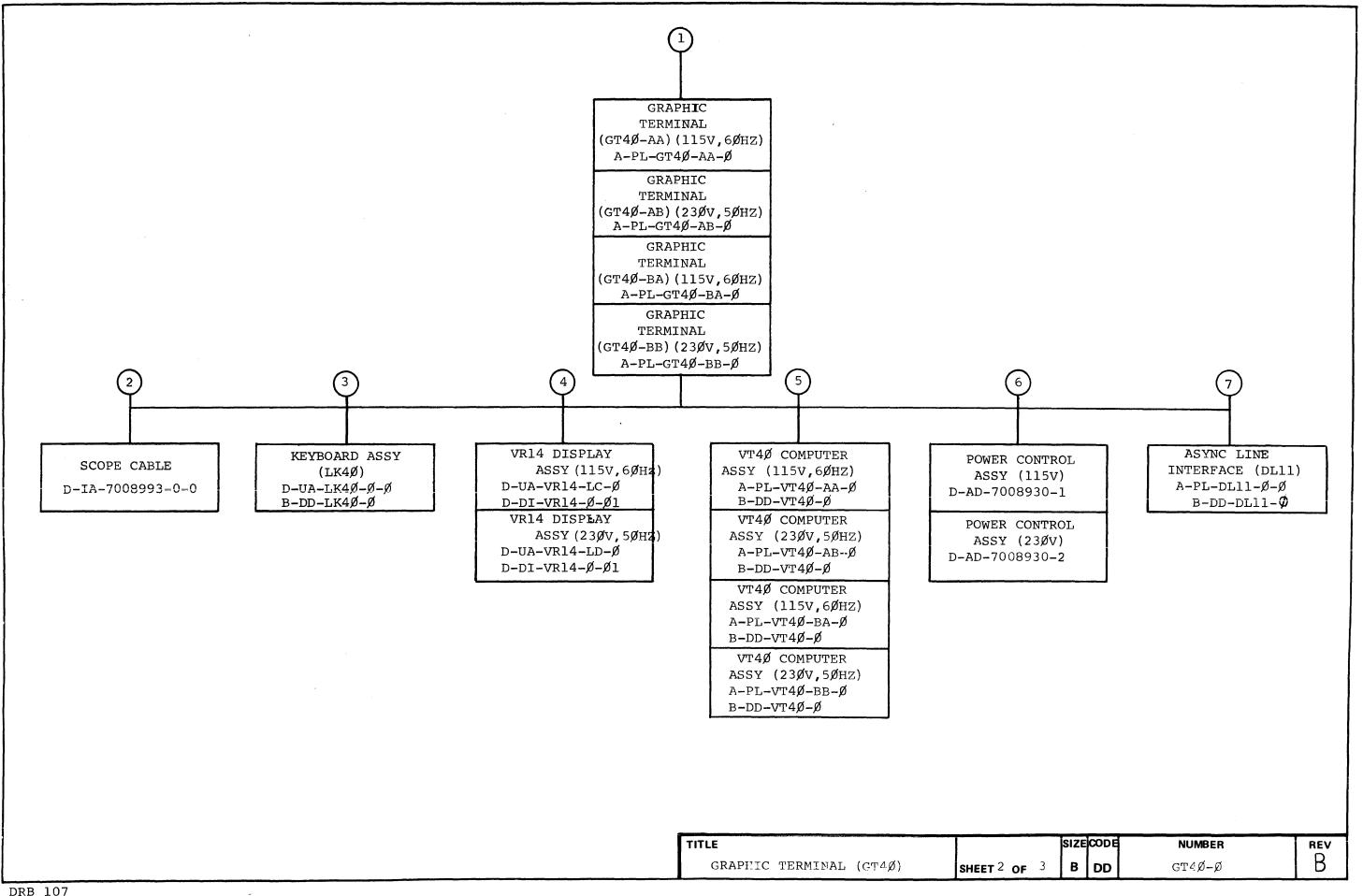
GT40 graphic display terminal engineering drawings

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GRAPHIC TERMINAL (GT4Ø)	$A-PL-GT4\emptyset-\emptyset-\emptyset$				T			
KEYBOARD ASSY (LK4Ø)	B-DD-LK4Ø-Ø			VAR	TITLE		GT4Ø	
DISPLAY (VR14)	A-ML-VRI4-Ø			7711	11166		<u>8</u>	
VT4Ø COMPUTER ASSY	B-DD-VT4Ø-Ø D-AD-7008930-0-0			GT4∅-AA	GRAPHIC TERM (GT4Ø)	(115V,60HZ)	х	
POWER CONTROL ASSY	D-SP-GT4Ø-Ø-2			GT4Ø-AB	GRAPHIC TERM(GT4Ø)	(23ØV,50HZ)	X	
BASE DIAGRAMS	D-SP-GT4Ø-Ø-2 D-IC-GT4Ø-Ø-3			GT4Ø-BA	GRAPHIC TERM(GT4Ø)	(115V,60HZ)	х	\Box
INTERCONNECT DIAGRAM	D-BD-GT4Ø-Ø-4			GT4Ø-BB	GRAPHIC TERM(GT4Ø)	(23ØV,50HZ)	х	\perp
DISPLAY PROCESSOR	D-FD-GT4Ø-Ø-5							\bot
SET GRAPHIC MODE	D-FD-GT4Ø-Ø-6						\bot	\perp
DISPLAY JUMP NO OPERATION	D-FD-GT4Ø-Ø-7						111	
LOAD STATUS REGISTER A	D-FD-GT4Ø-Ø-8				<u> </u>		$\bot \bot \bot$	
LOAD STATUS REGISTER B	D-FD-GT4Ø-Ø-9						+++	$-\downarrow$
GRAPH X OR GRAPH Y	D-FD-GT4Ø-Ø-10						+++	
POINT MODE	D-FD-GT4Ø-Ø-11				 		+++	\leftarrow
VECTOR MODE	D-FD-GT4Ø-Ø-12				<u> </u>		+	
SHORT VECTOR OR REL PT.	D-FD-GT4Ø-Ø-13				+		+++	+
CHARACTER GEN.	D-FD-GT4Ø-Ø-14				 		+++	\dashv
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CHAR. GEN. LOGIC TIMING	D- TD- GT4Ø-Ø-16						+++	+
WIRE LIST	K-WL-GT4Ø-Ø-WL				+		+++	_
SCOPE CABLE	D-IA-7008993-0-0						+++	+
ASYNC LINE INTERFACE	B-DD-DL11-Ø				 	· · · · · · · · · · · · · · · · · · ·	+++	+
LIGHT PEN AMPLIFIER	B-DD-375-Ø						1	\top
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3	D-UA-VR14-LD-Ø	VR14 DISPLAY ASSY 23ØV	<u> -</u>	1		1							
4	D-IA-7008993-0-0	SCOPE CABLE	1	1	1	1							
5	A-PL-VT4Ø-AA-Ø	VT4Ø COMPUTER ASSY 115V 4K	<u> </u>	_	1								
6	A-PL-VT4Ø-AB-Ø	VT4Ø COMPUTER ASSY 23ØV 4K	-			1							
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KEYB RD ASSY

KEYBOARD ASSY

SMALL KEYBOARD

LARGE KEYBOARD

CIRCUIT SCHEMATIC

CIRCUIT SCHEMATIC

SERIAL TRANSMITTER

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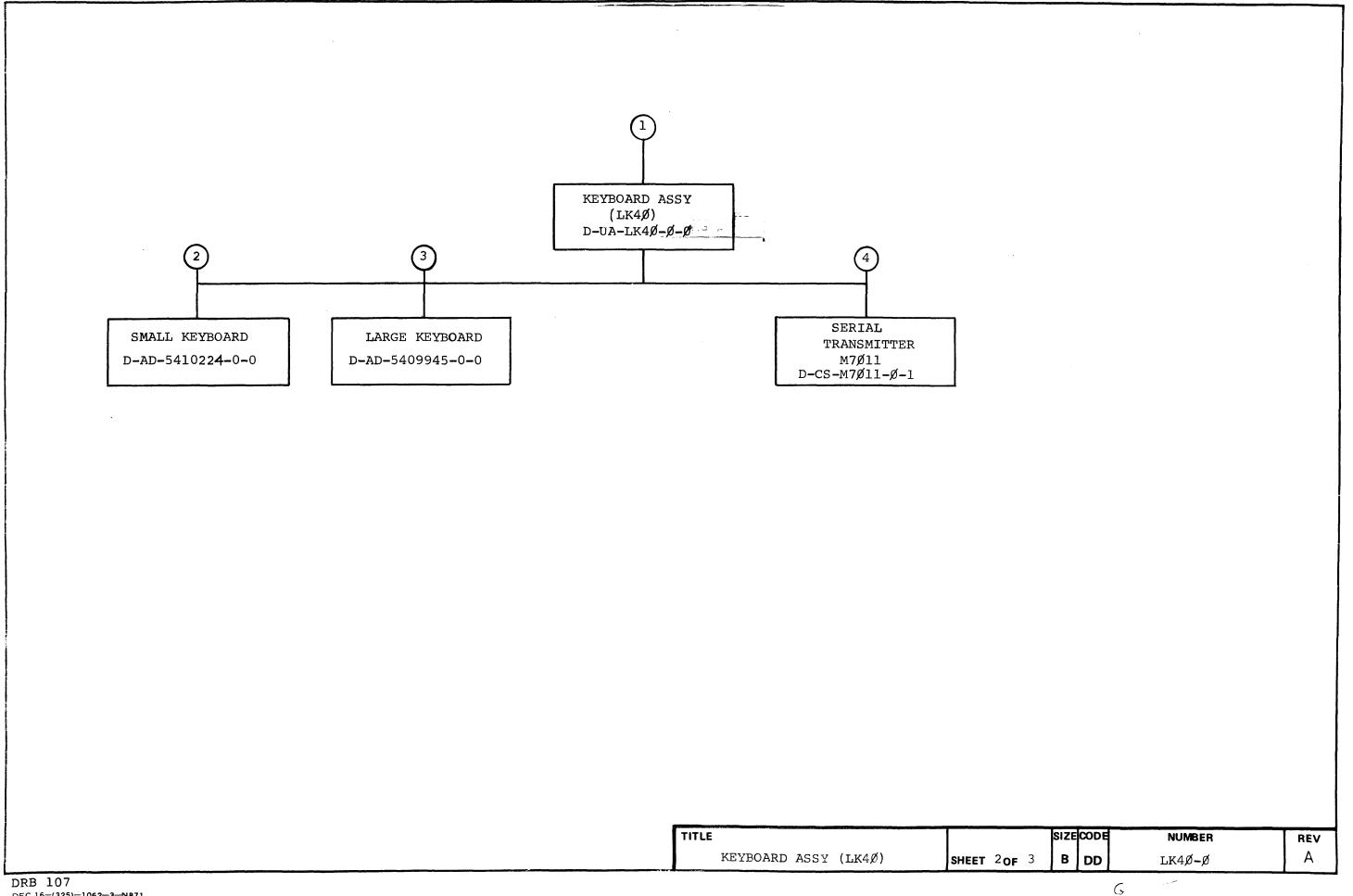
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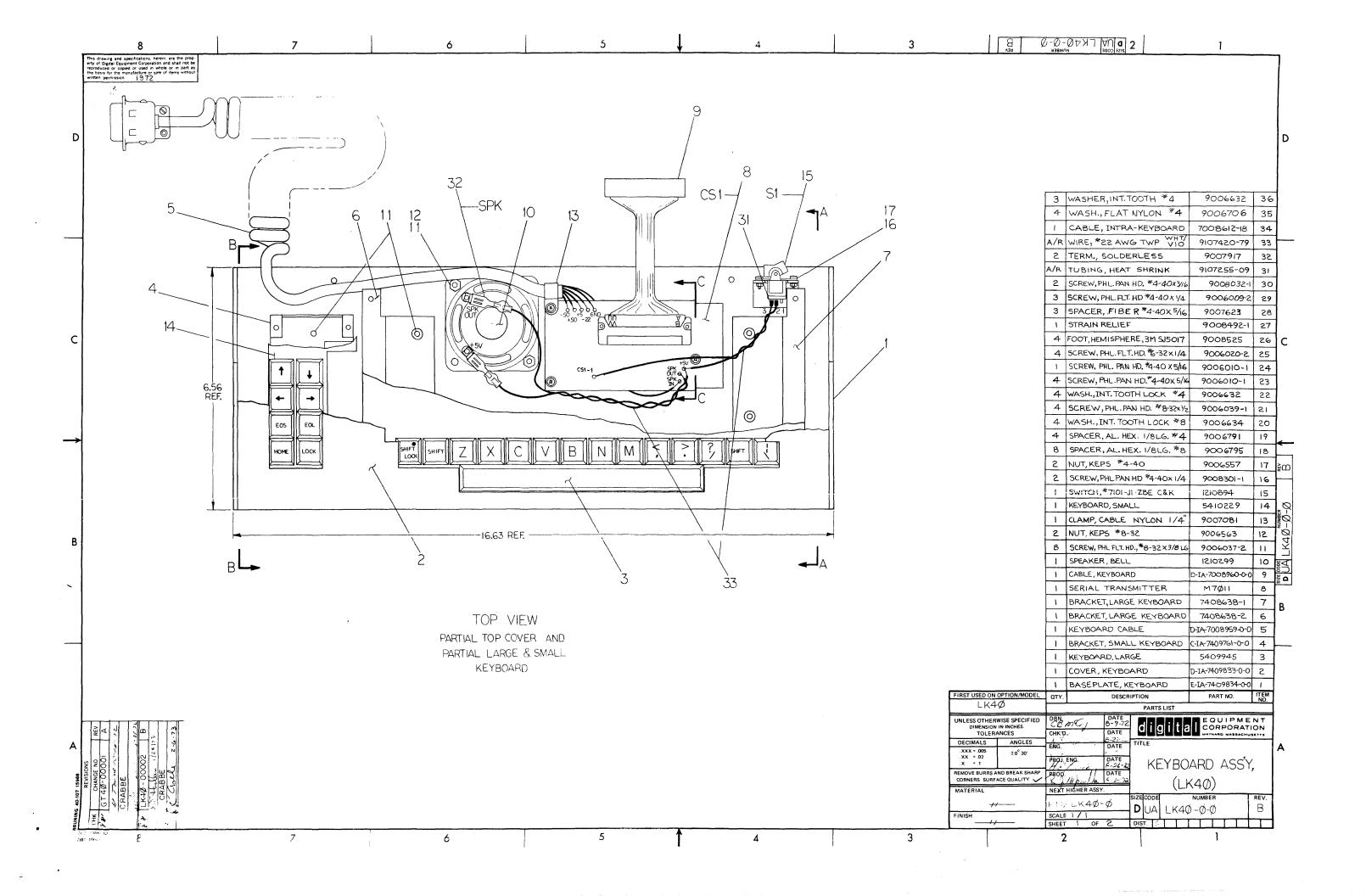
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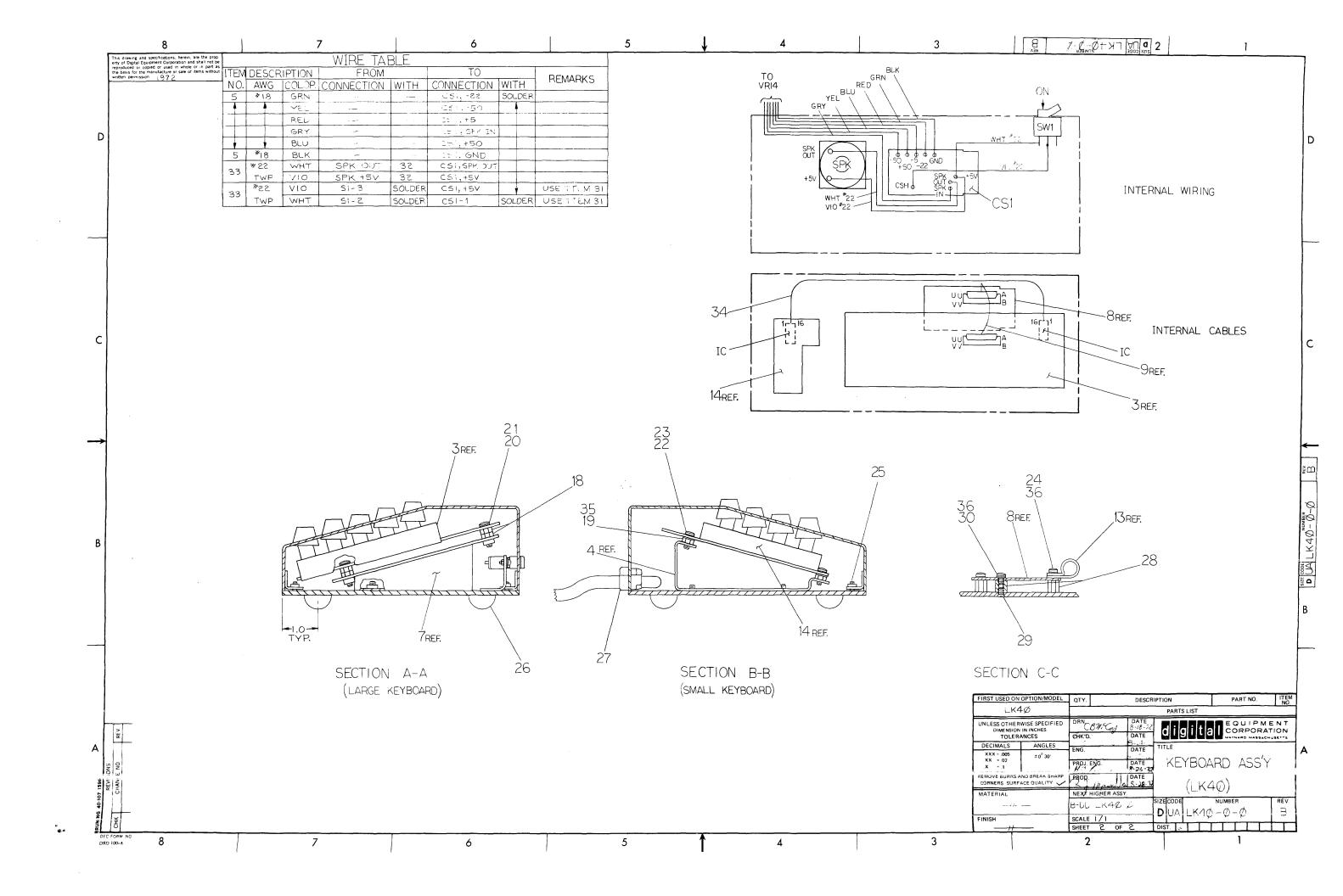
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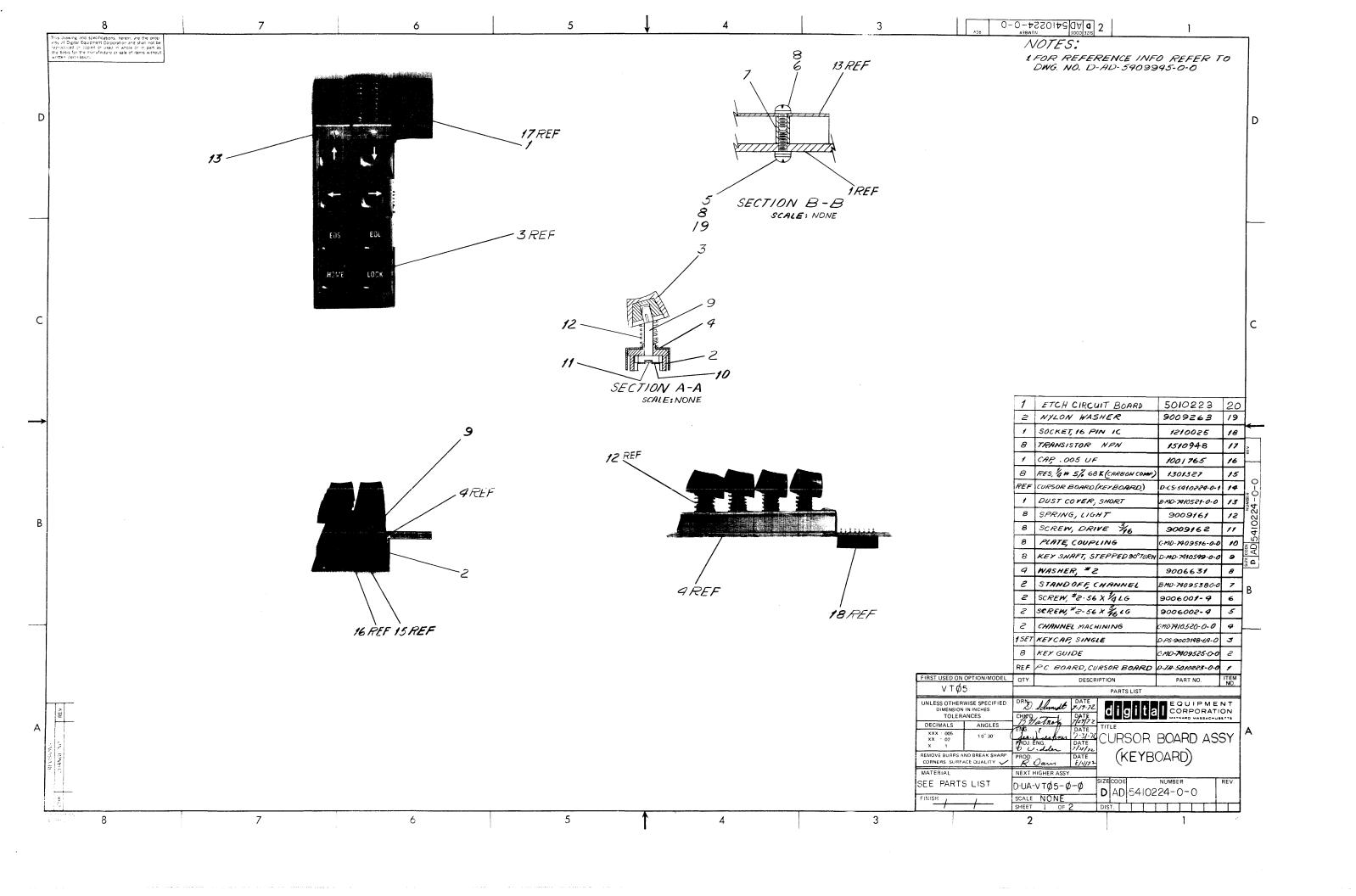
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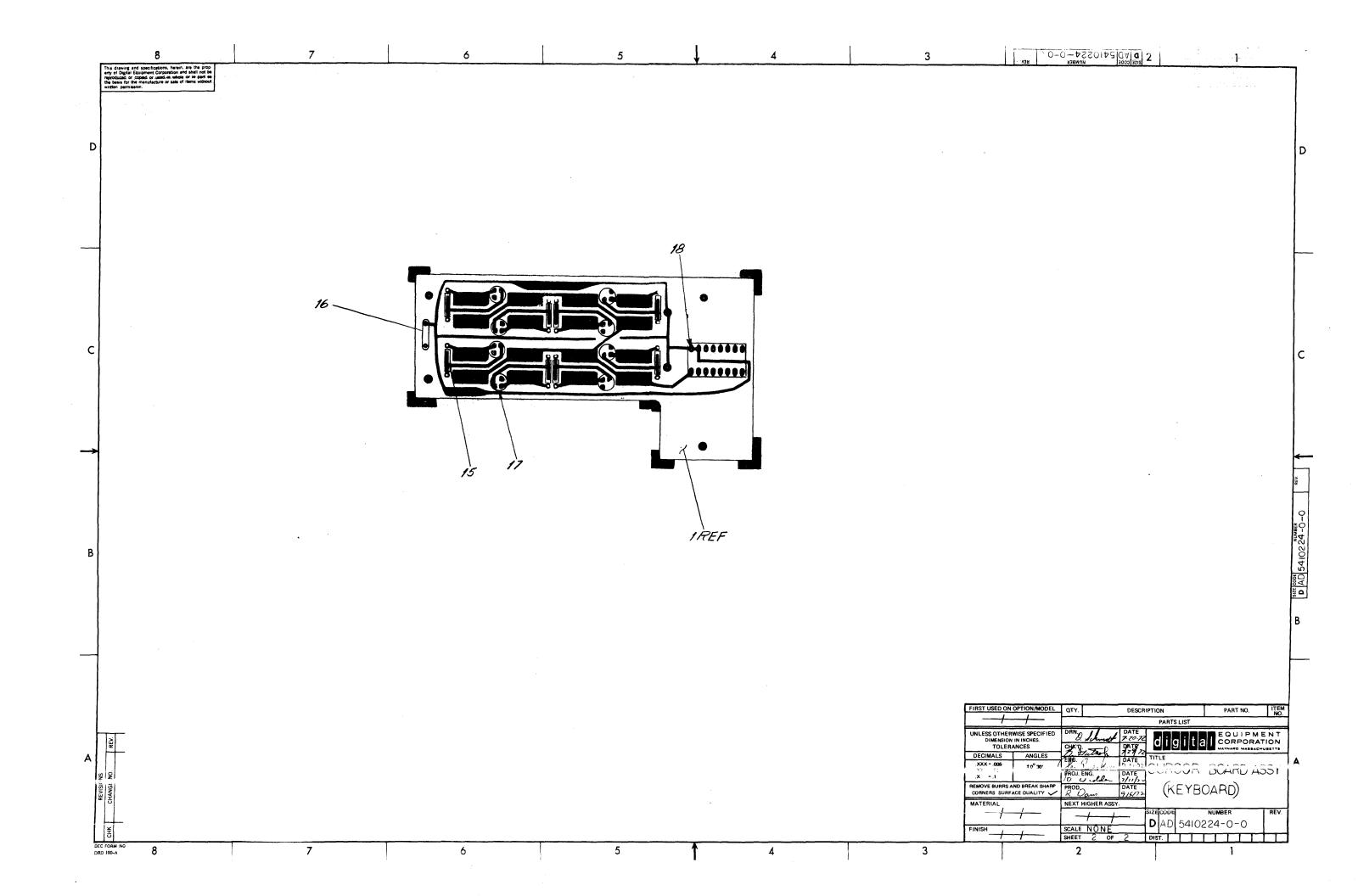


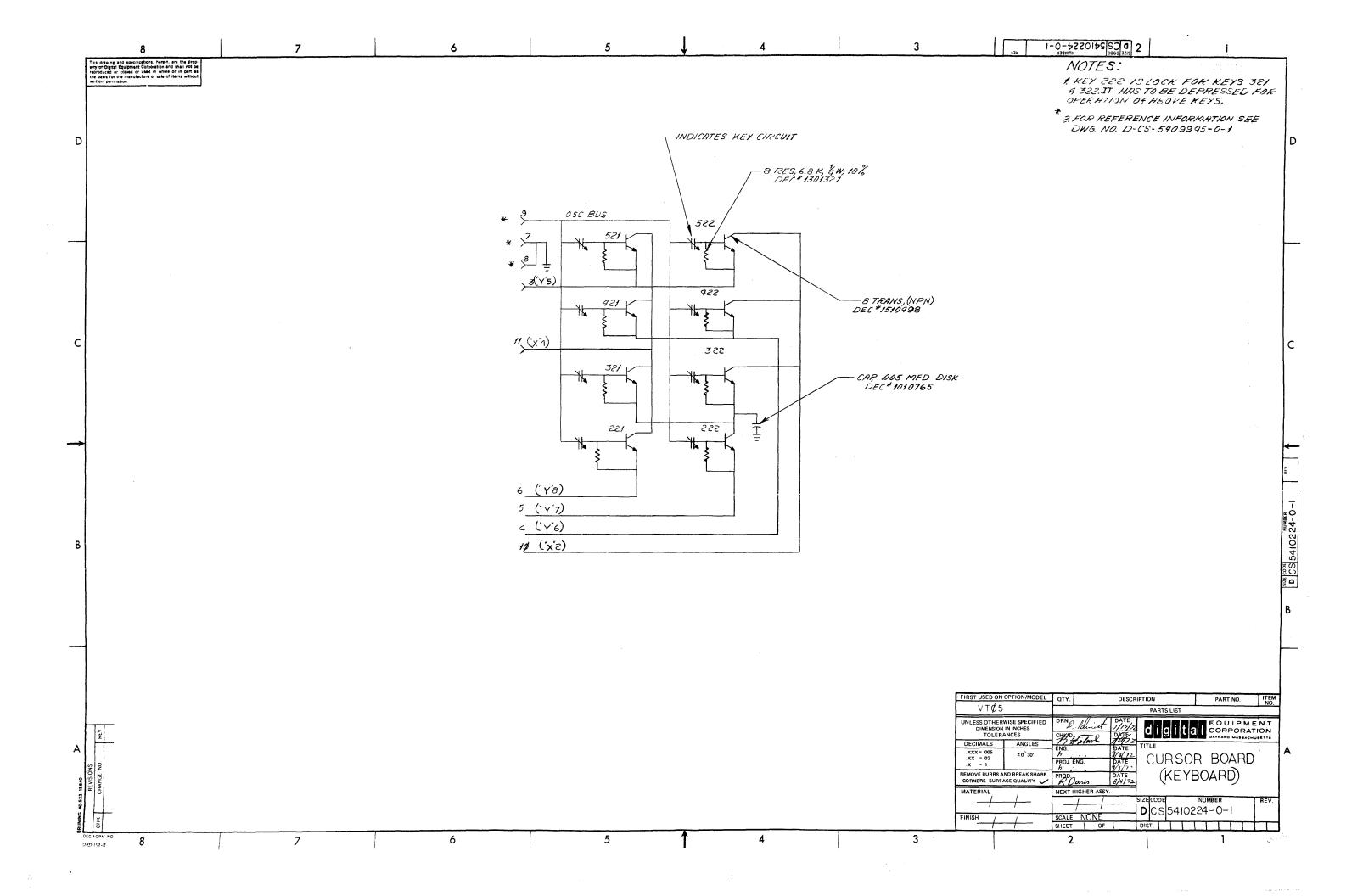
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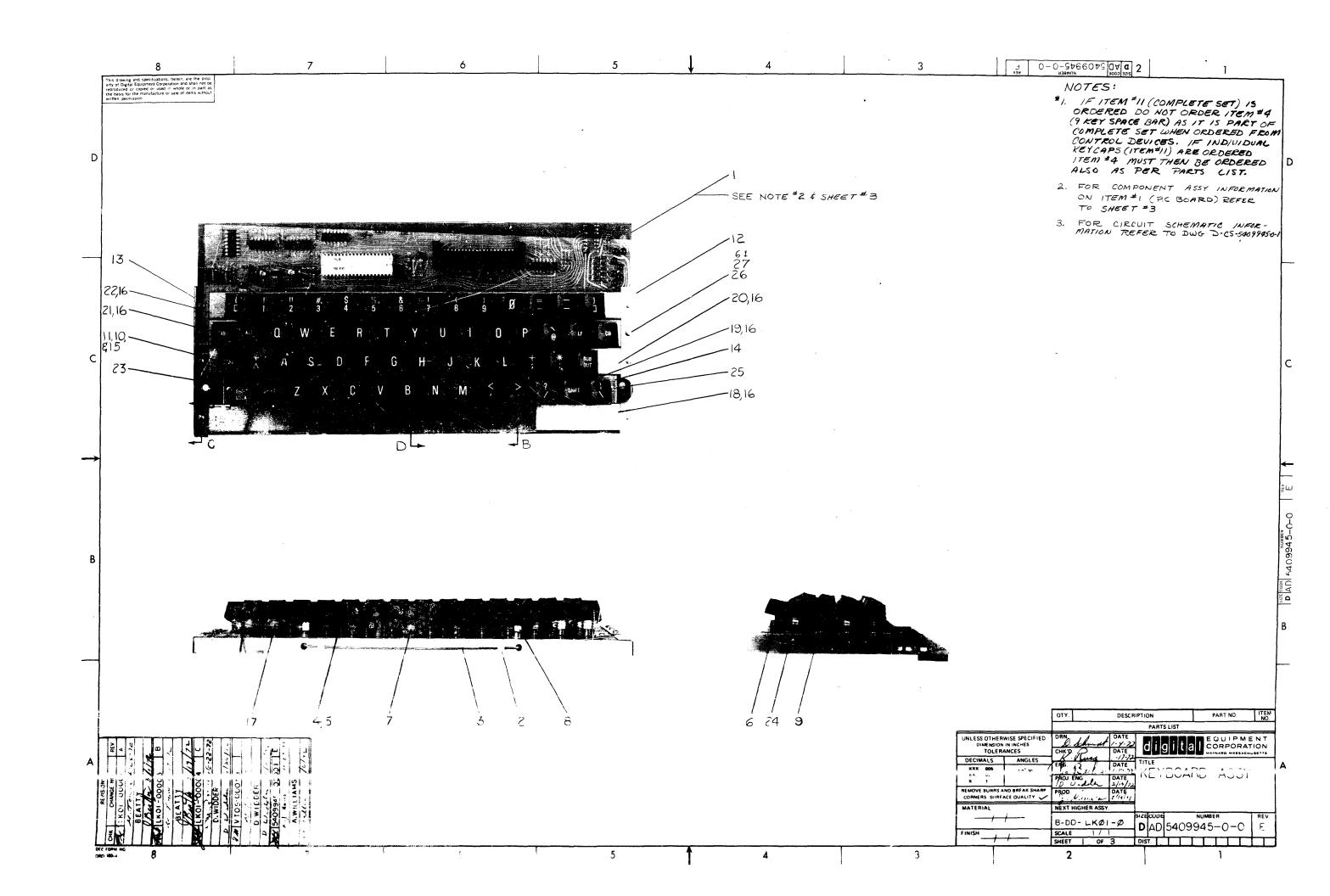


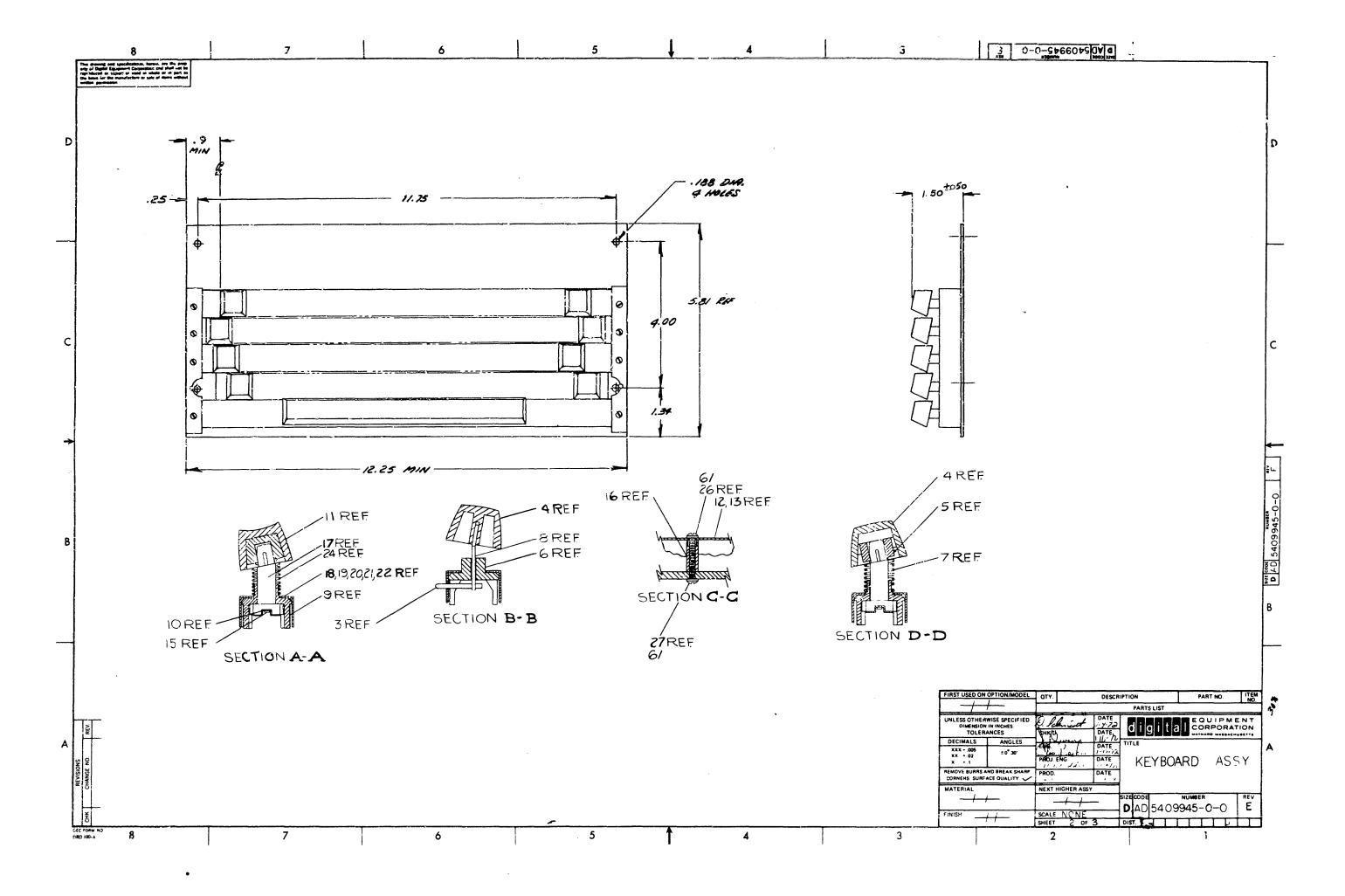


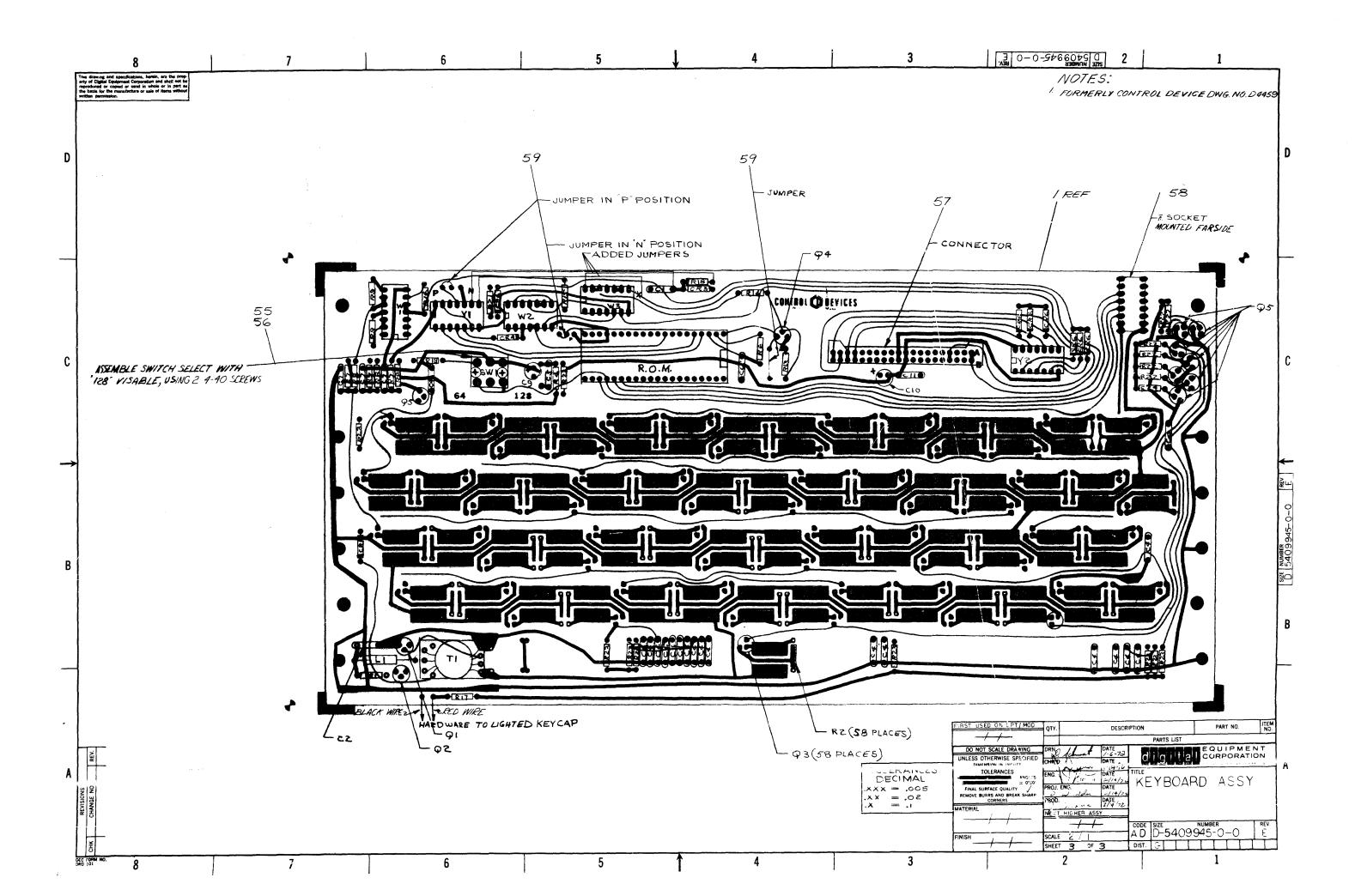


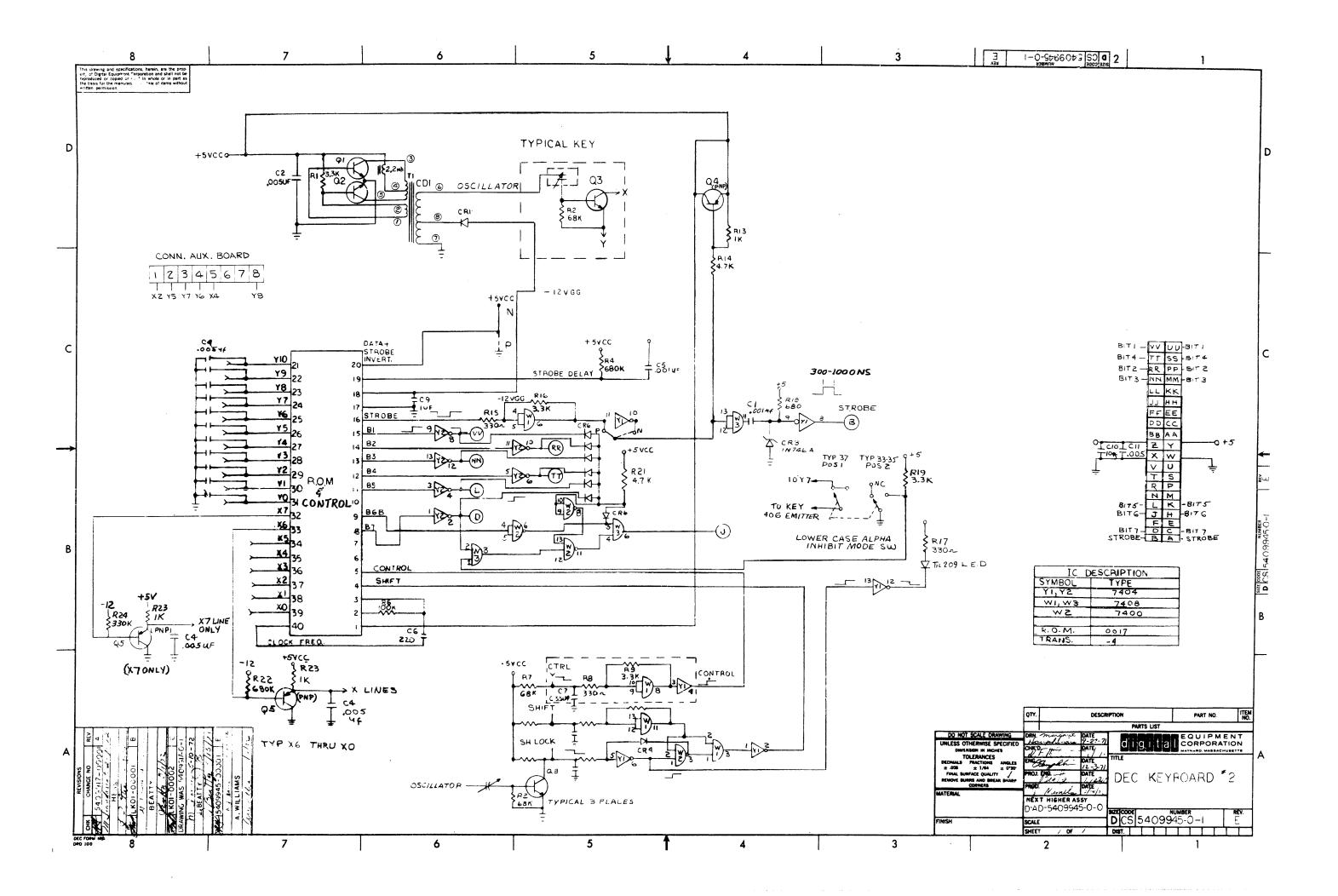


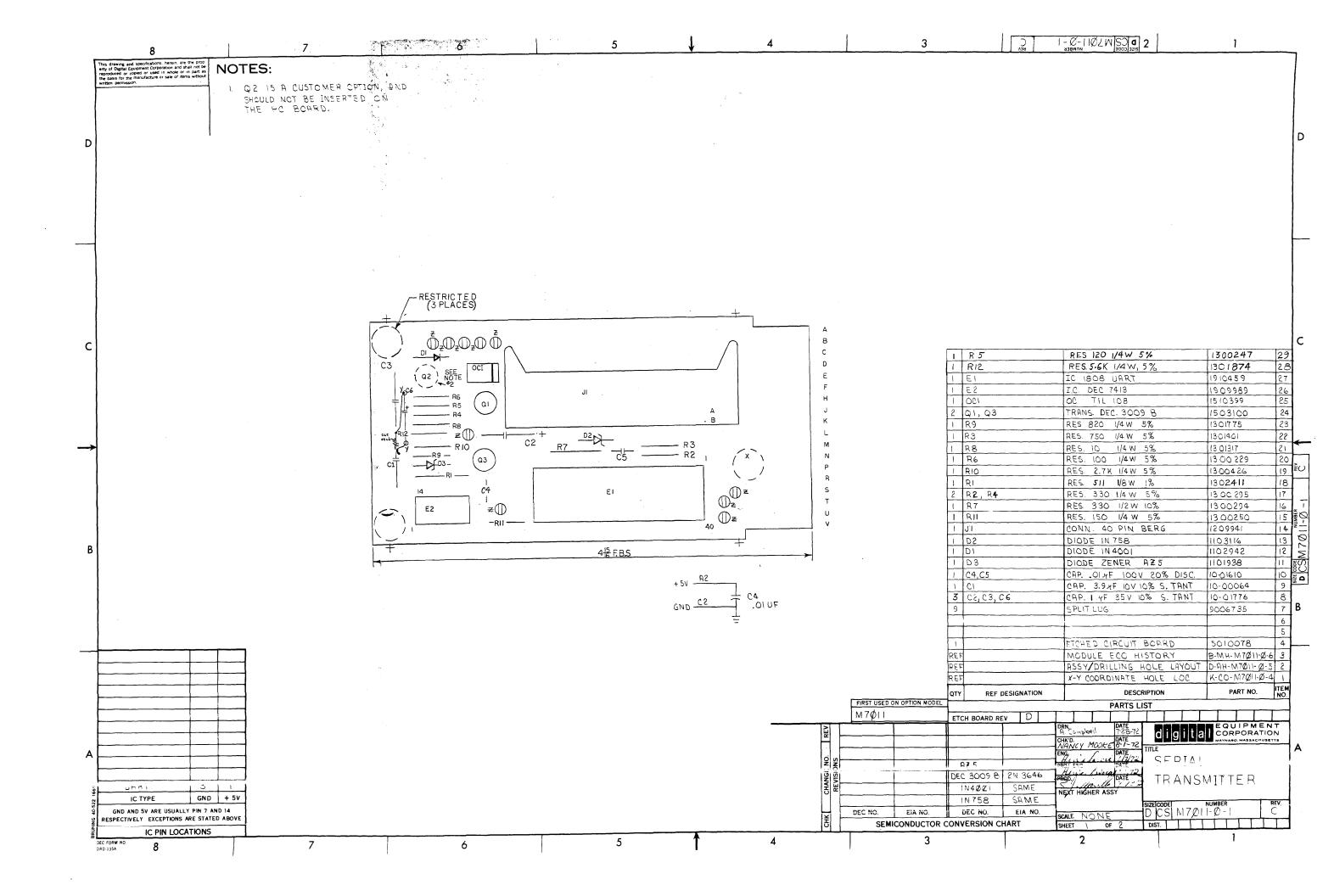


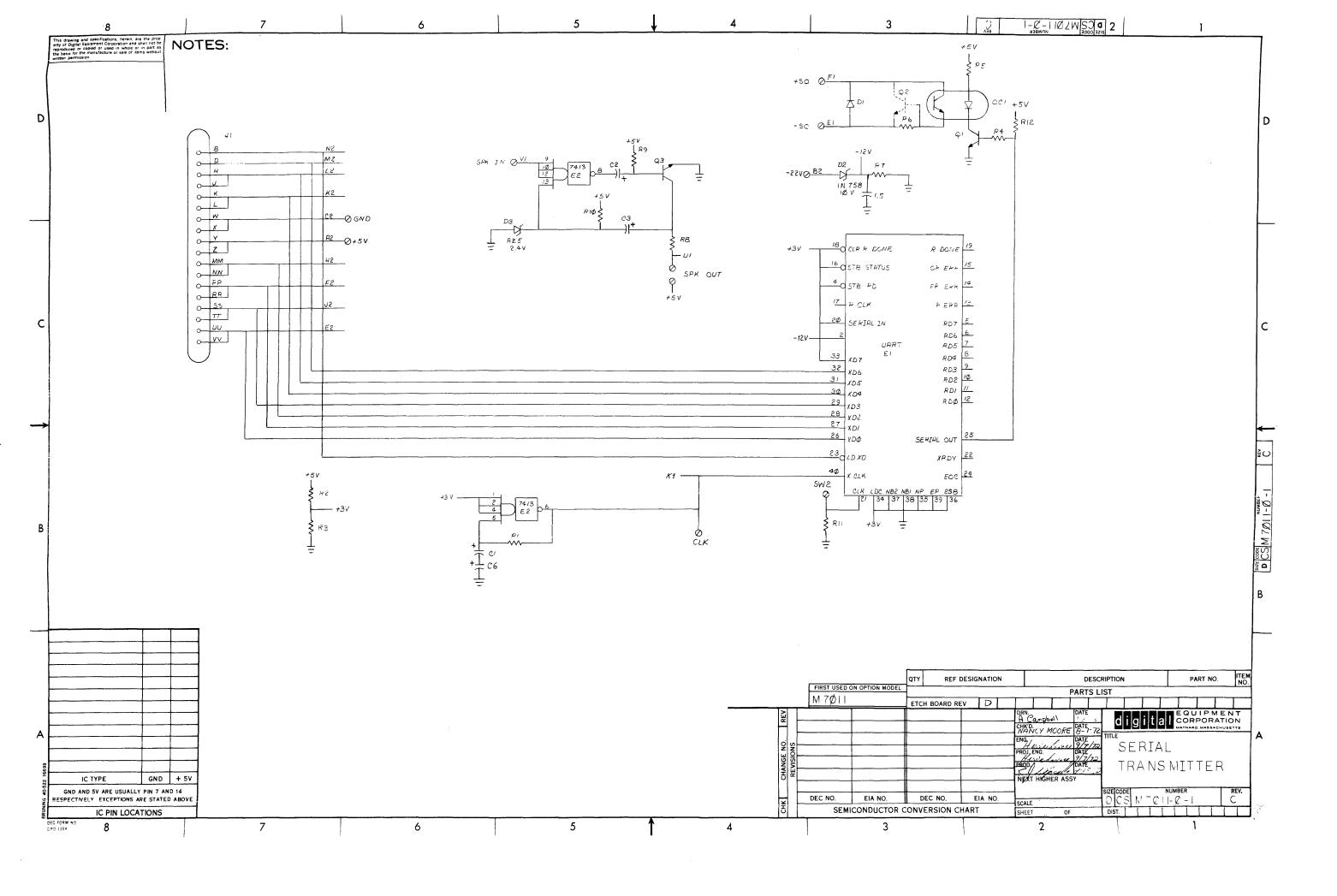










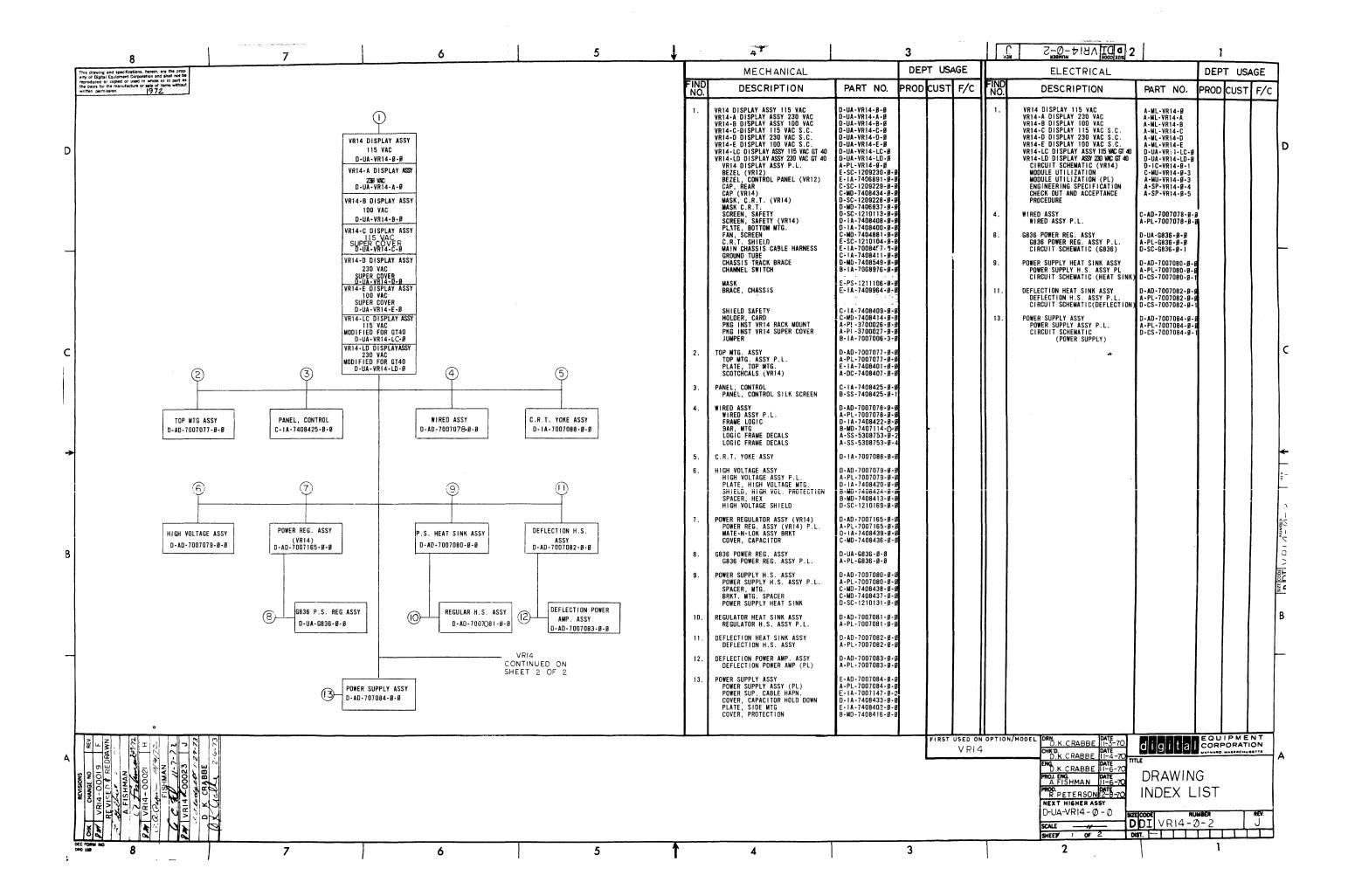


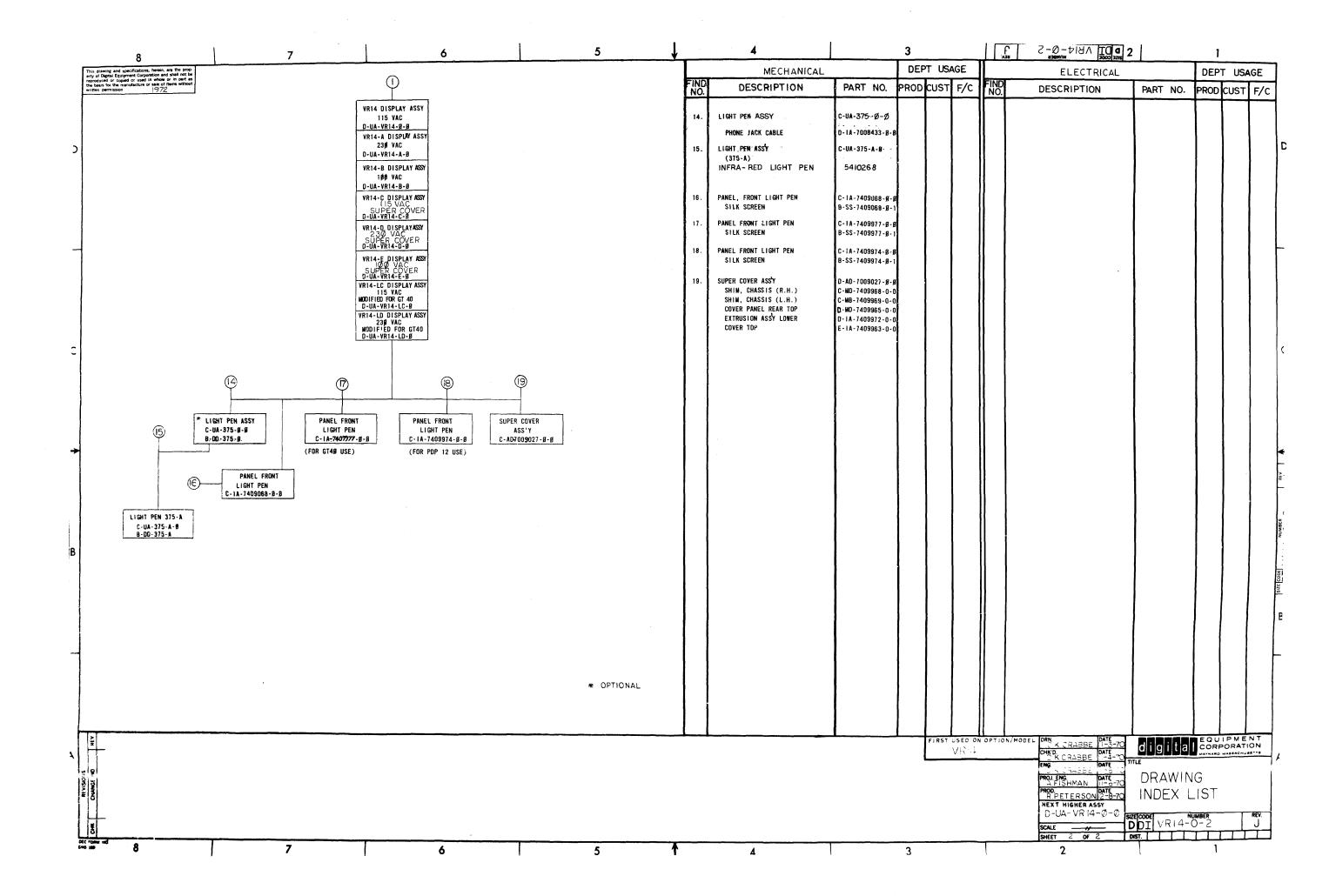
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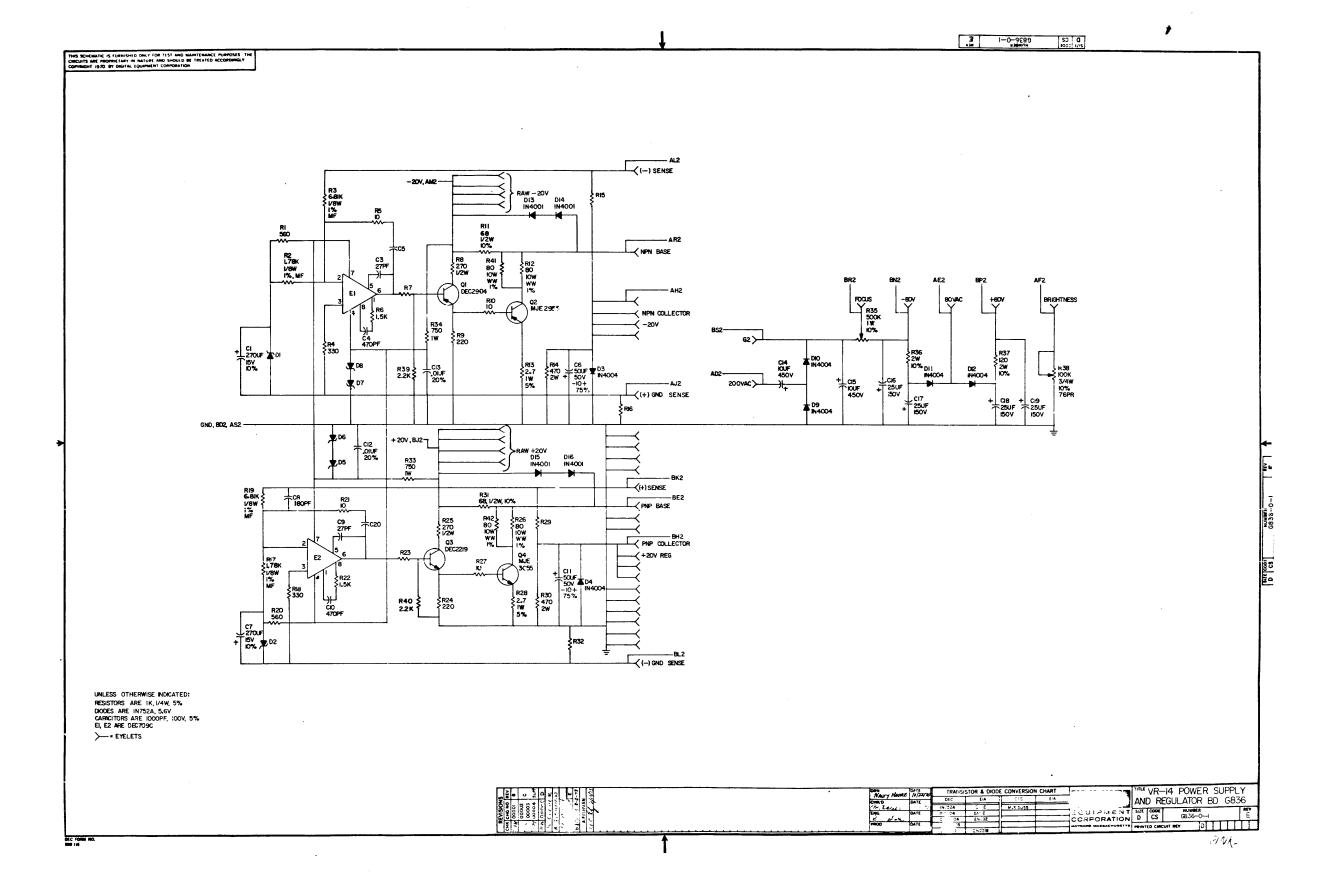
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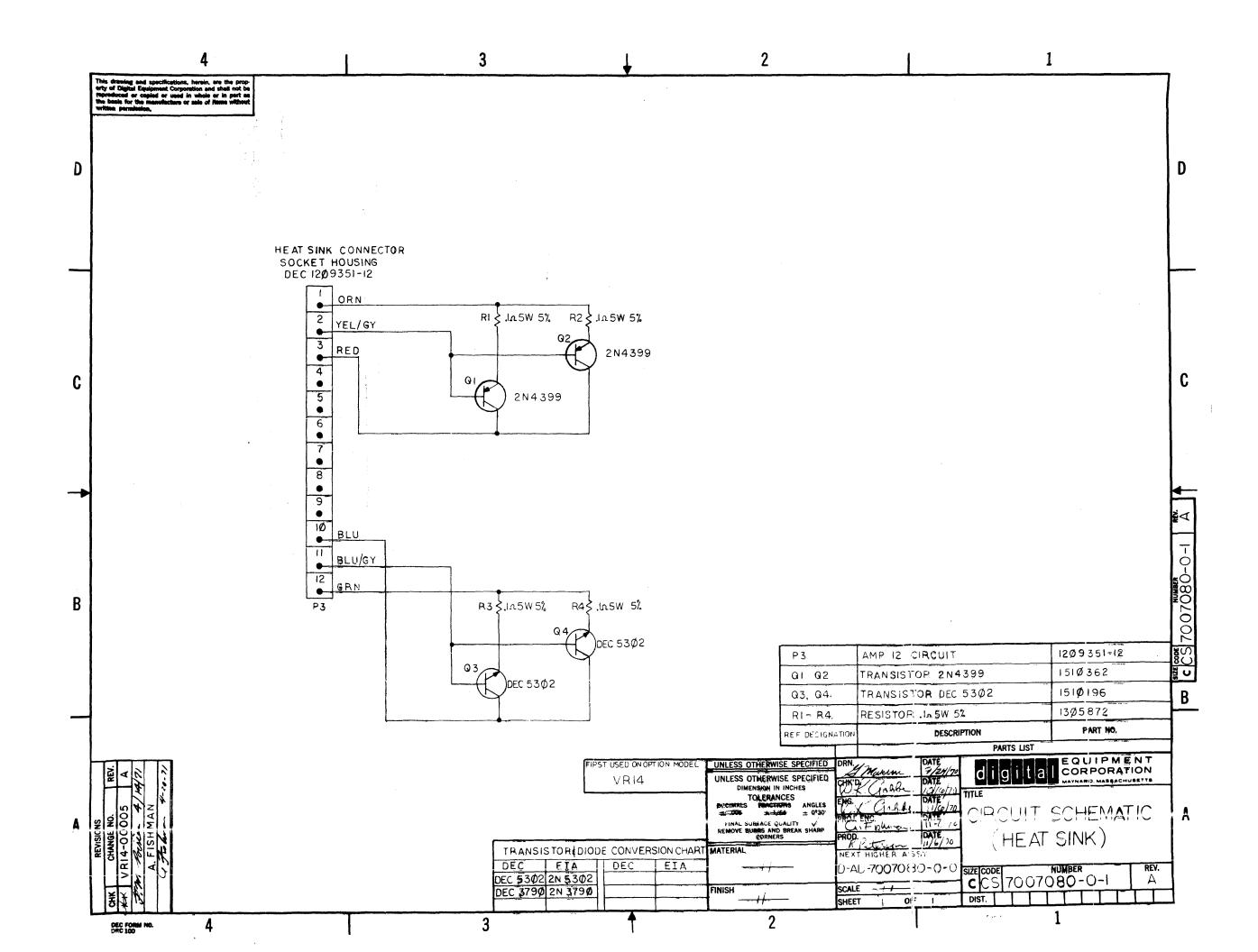
PRIN	T SET	Γ					
VR14-Ø			DWG. NO.		NO. OF SHEETS	TITLE	OPTIO NO.
X			D-DI-VR14-0-2	7	2	DRAWING INDEX LIST	
x	#=		D-CS-G836-0-1	#	1	POWER SUPPLY & REGULATOR SCHEMATIC	
X			C-CS-7007080-0-1	A_	1	POWER SUPPLY HEAT SINK SCHEMATIC	
х			C-CS-7007082-0-1	A	1_1	DEFLECTION HEAT SINK SCHEMATIC	
<u>x </u>	+-	╂	D-CS-7007084-0-1	D	2	POWER SUPPLY SCHEMATIC	
x	#=		C-MU-VR14-0-3	B_	1	MODULE UTILIZATION	
x	+-		D-IC-VR14-0-1	K	3	VR14 BLOCK SCHEMATIC	
x	#=		A-PL-VR14-0-3	В	1	MODULE UTILIZATION (PL)	
x	士-		D-UA-VR14-0-0		4	DISPLAY ASSEMBLY	
X _		} —}-	A-PL-VR14-0-0	1.	4	DISPLAY ASSEMBLY (PL)	
x			D-AD-7007078-0-0	F	1	WIRED ASSEMBLY	
Х			A-PL-7007078-0-0	F_	2.	WIRED ASSEMBLY (PL)	
x L	士		A-SP-VR14-0-4		4	ENGINEERING SPECIFICATION	
\times			A-SP-VR14-0-5	В	31	CHECKOUT & ACCEPTANCE PROCEDURE	
x	士:		D-UA-G836-0-0	#	1	POWER SUPPLY & REGULATOR ASSY	
x 		╁╼╁╸	A-PL-G836-0-0	##_	3	POWER SUPPLY & REGULATOR ASSY (PL)	
х	工:		D-AD-7007080-0-0		1.	POWER SUPPLY HEAT SINK ASSY	
×	+-	+-+	A-PL-7007080-0-0		1	POWER SUPPLY HEAT SINK ASSY (PL)	
х		土土	D-AD-7007082-0-0	В	1	DEFLECTION HEAT SINK ASSY	
X		+	A-PL-7007082-0-0	В	1	DEFLECTION HEAT SINK ASSY (PL)	
x	1		D-AD-7007084-0-0	F	2	POWER SUPPLY ASSY	
X			A-PL-7007084-0-0	. E	3	POWER SUPPLY ASSY (PL)	
TITLE	1	/R 14 D	ISPLAY			SIZE CODE NUMBER SHEET 2 OF 2 A M L VR14-0	REV.

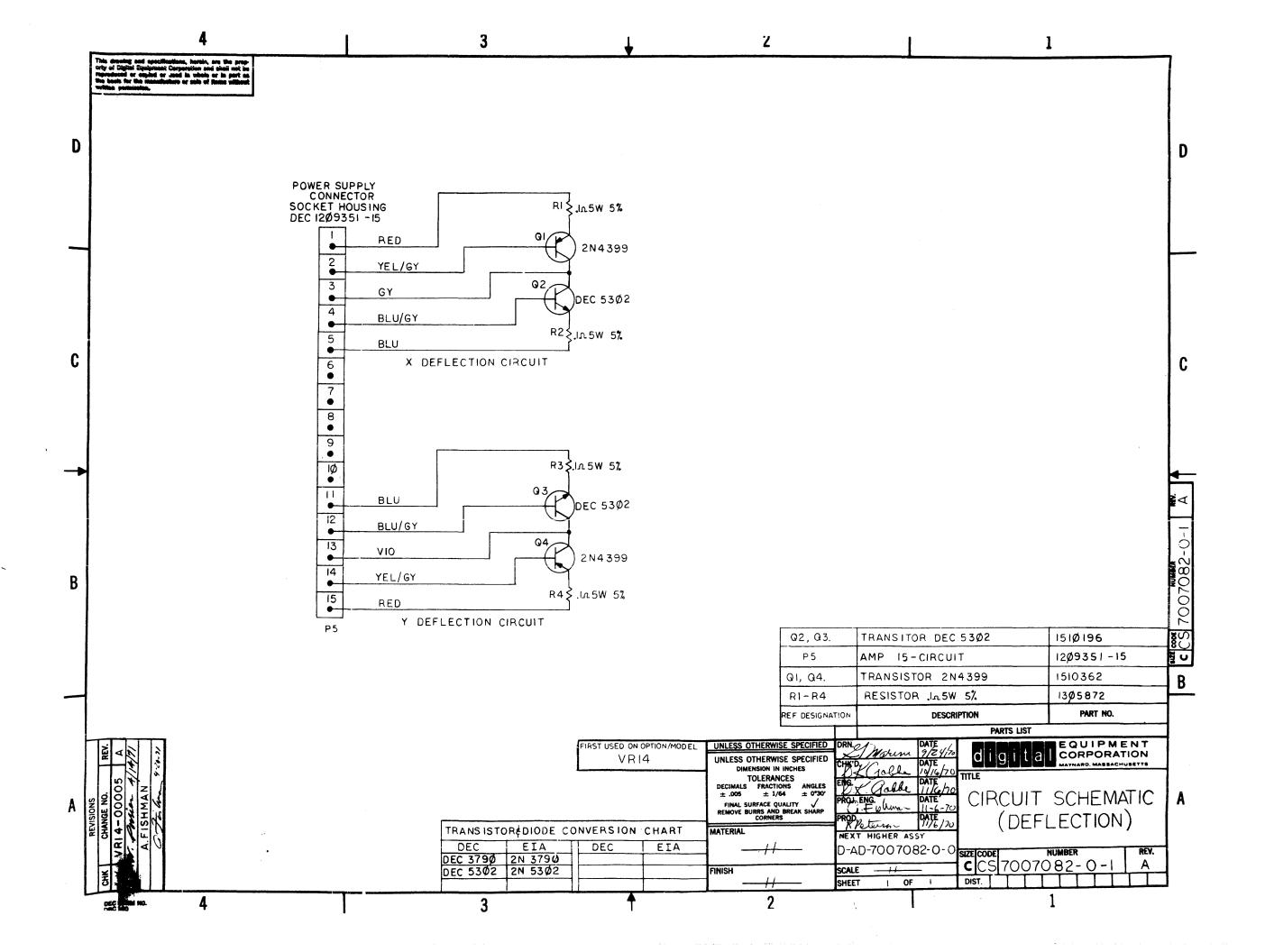


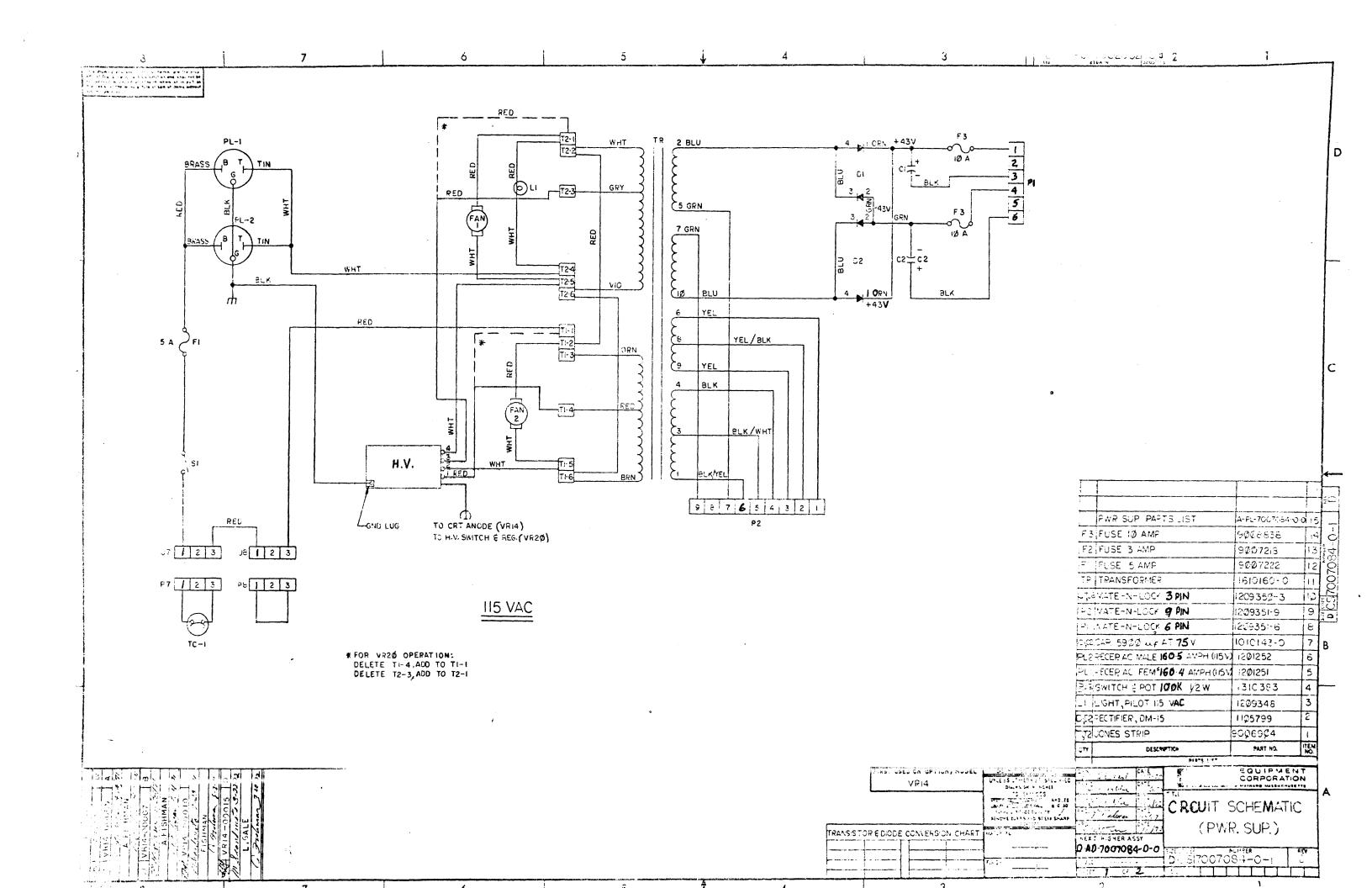


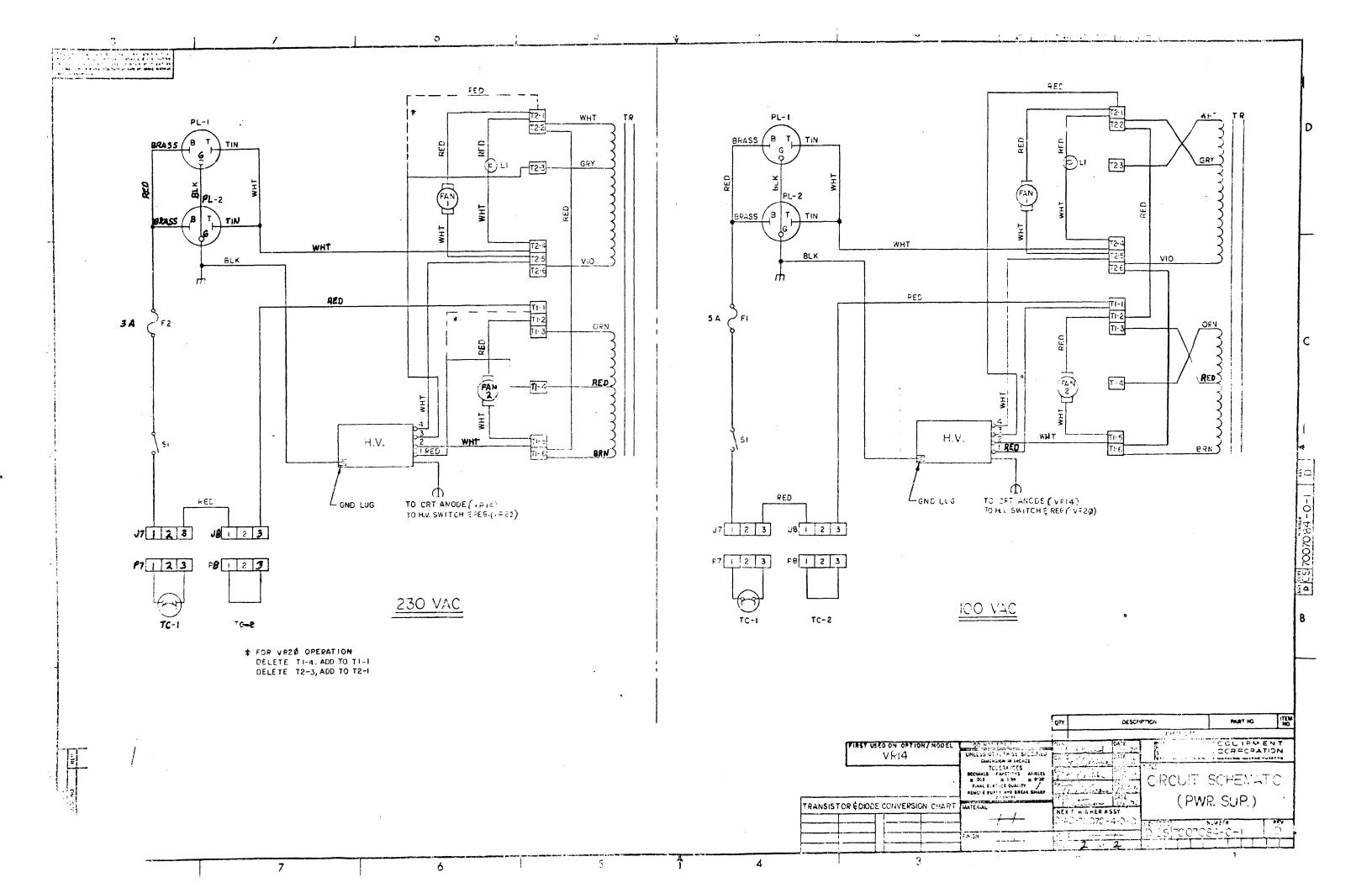


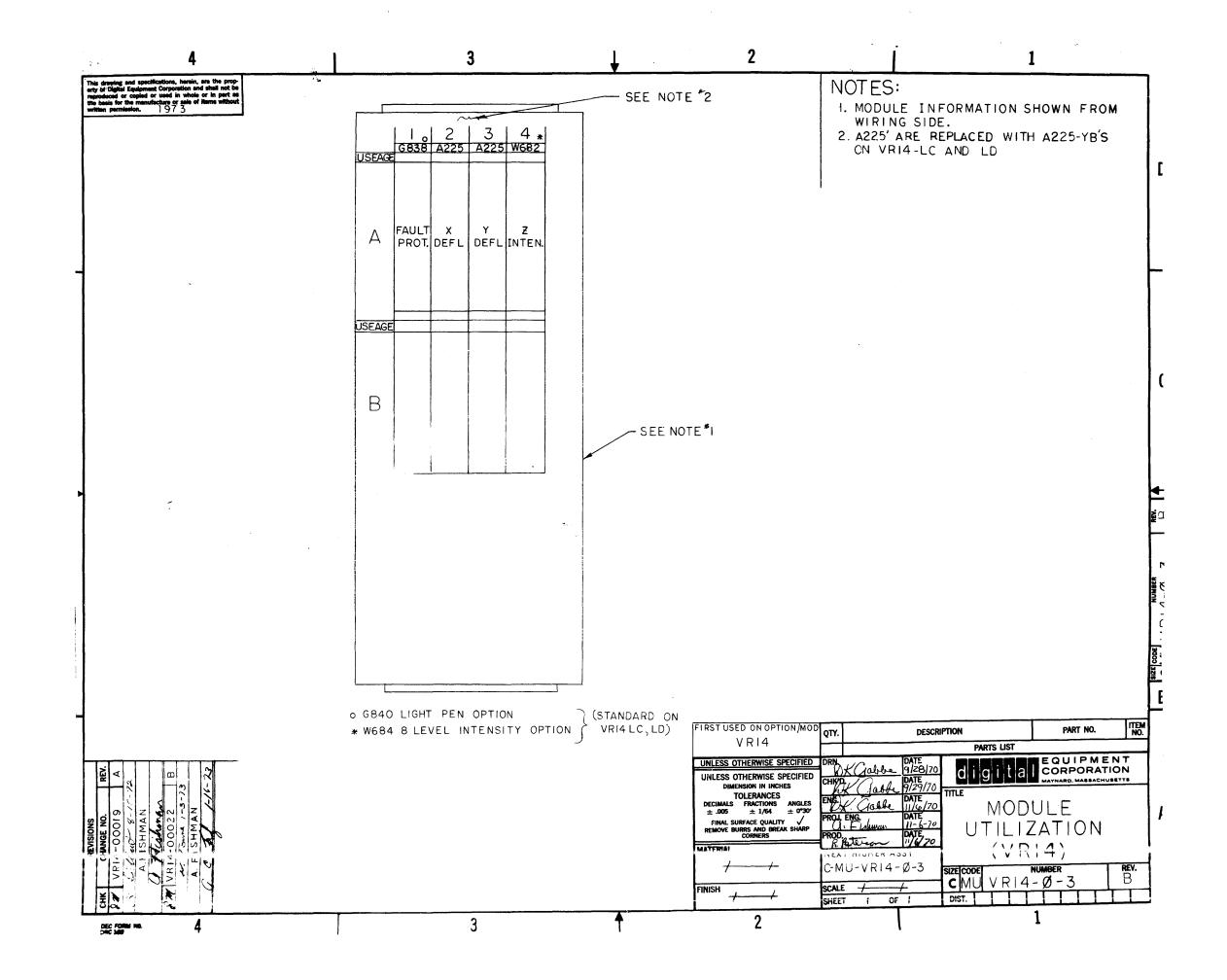
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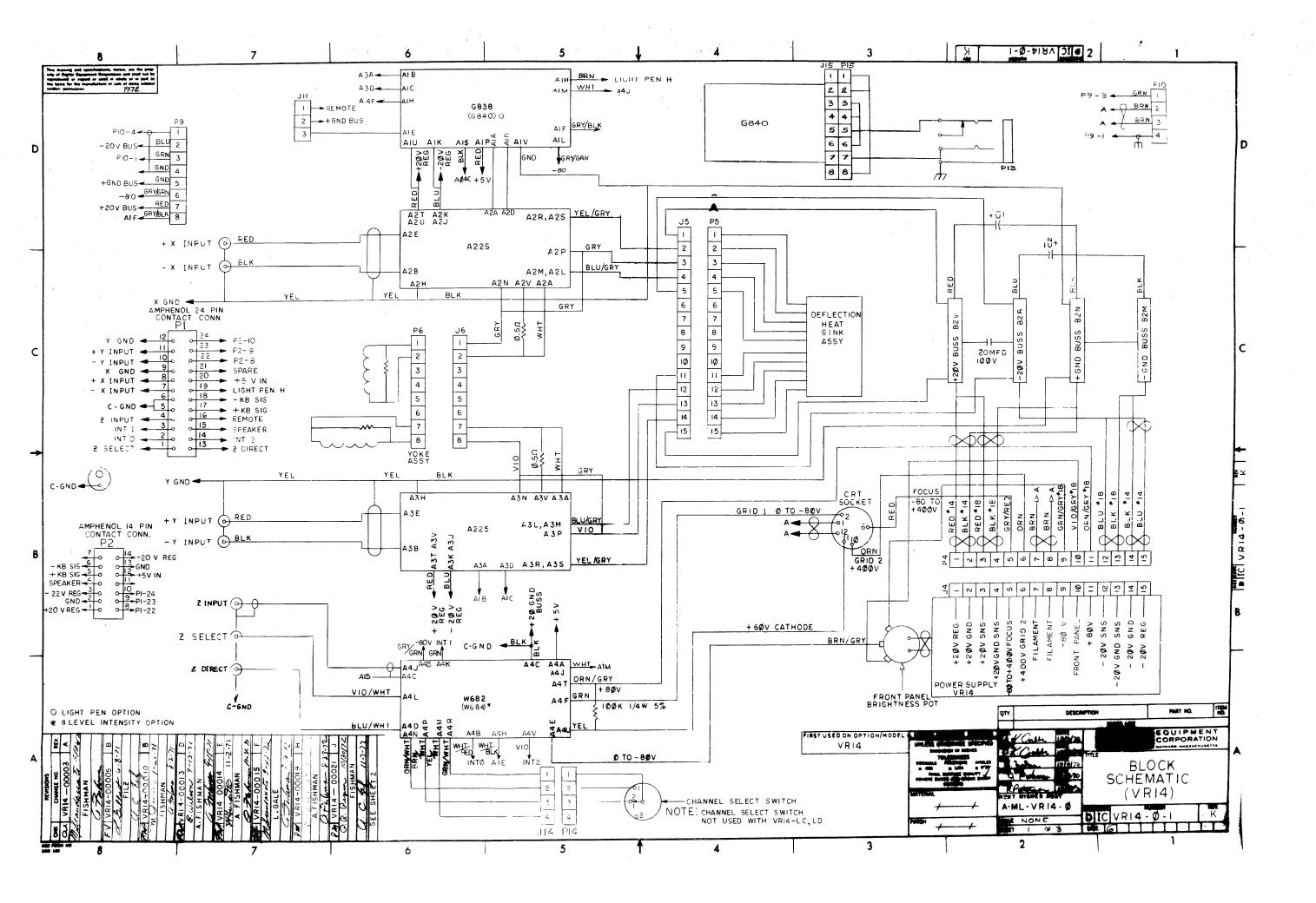


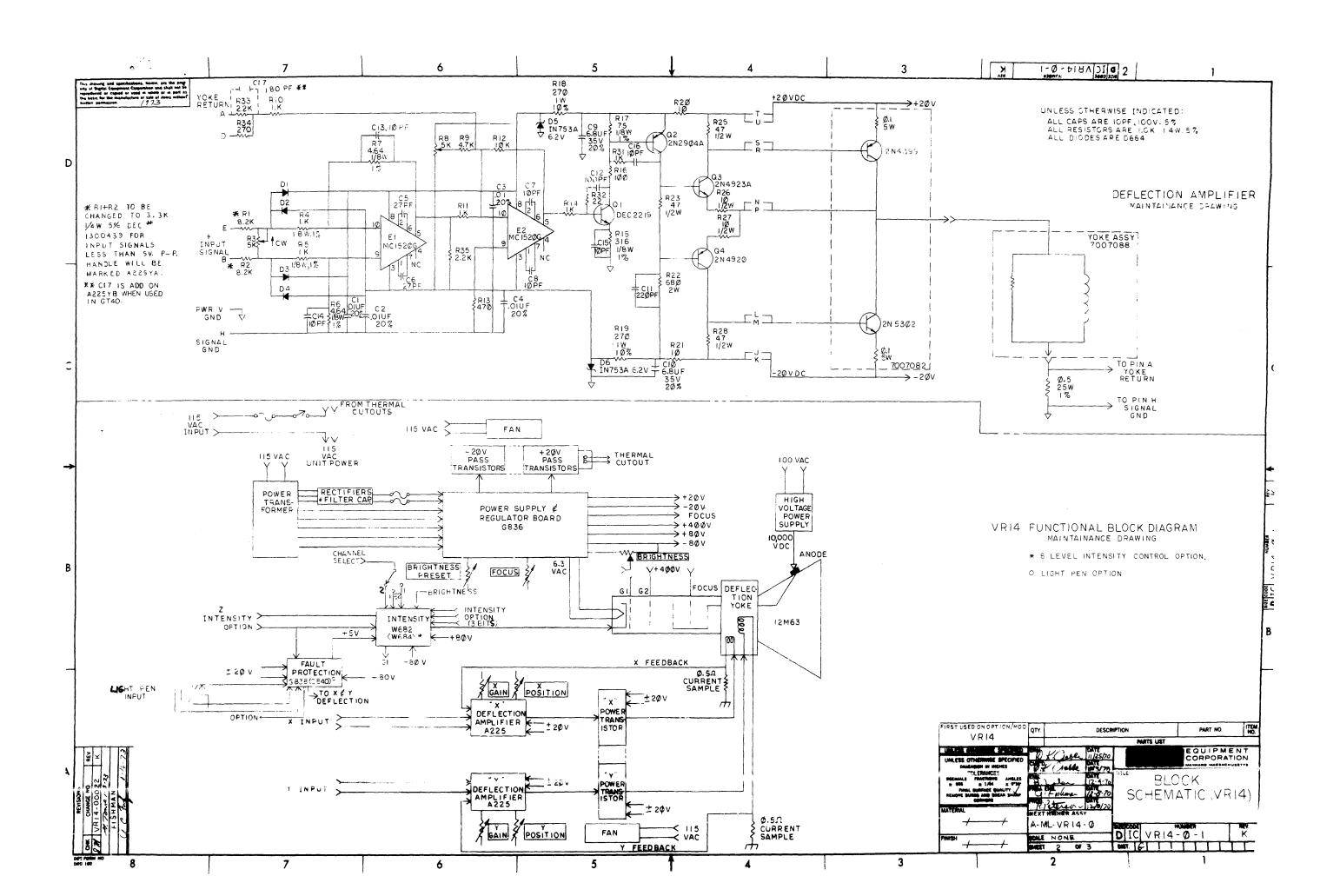


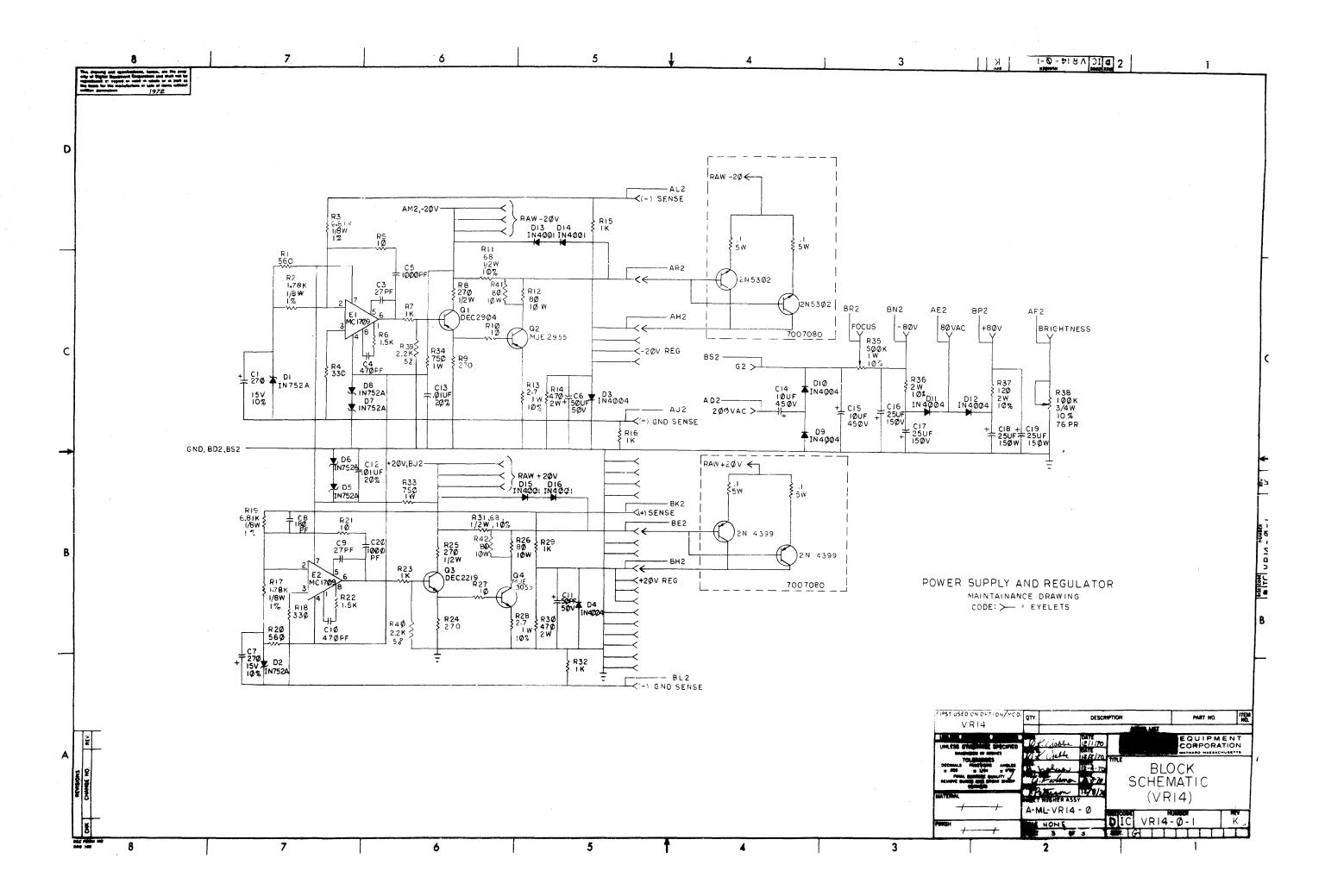






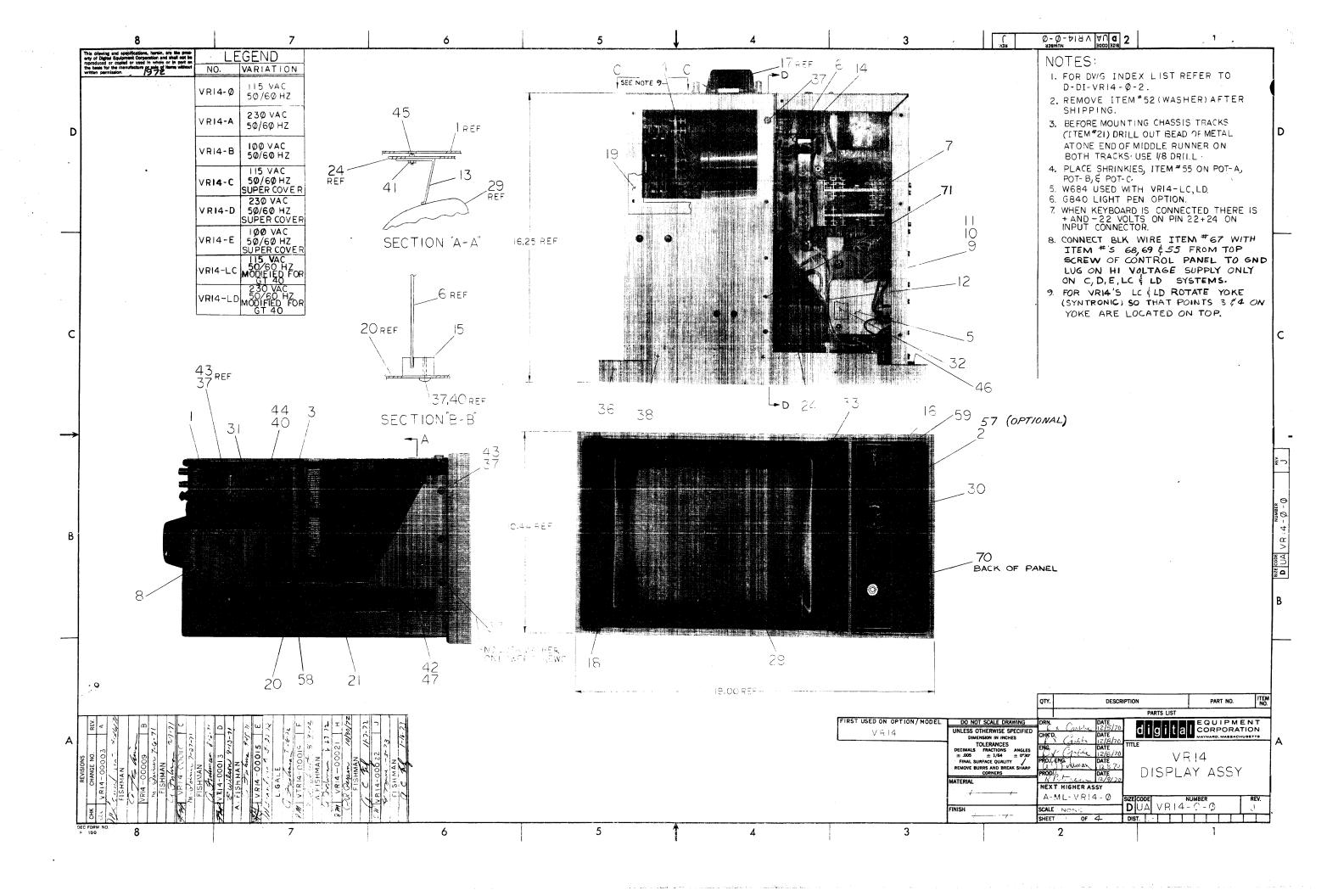


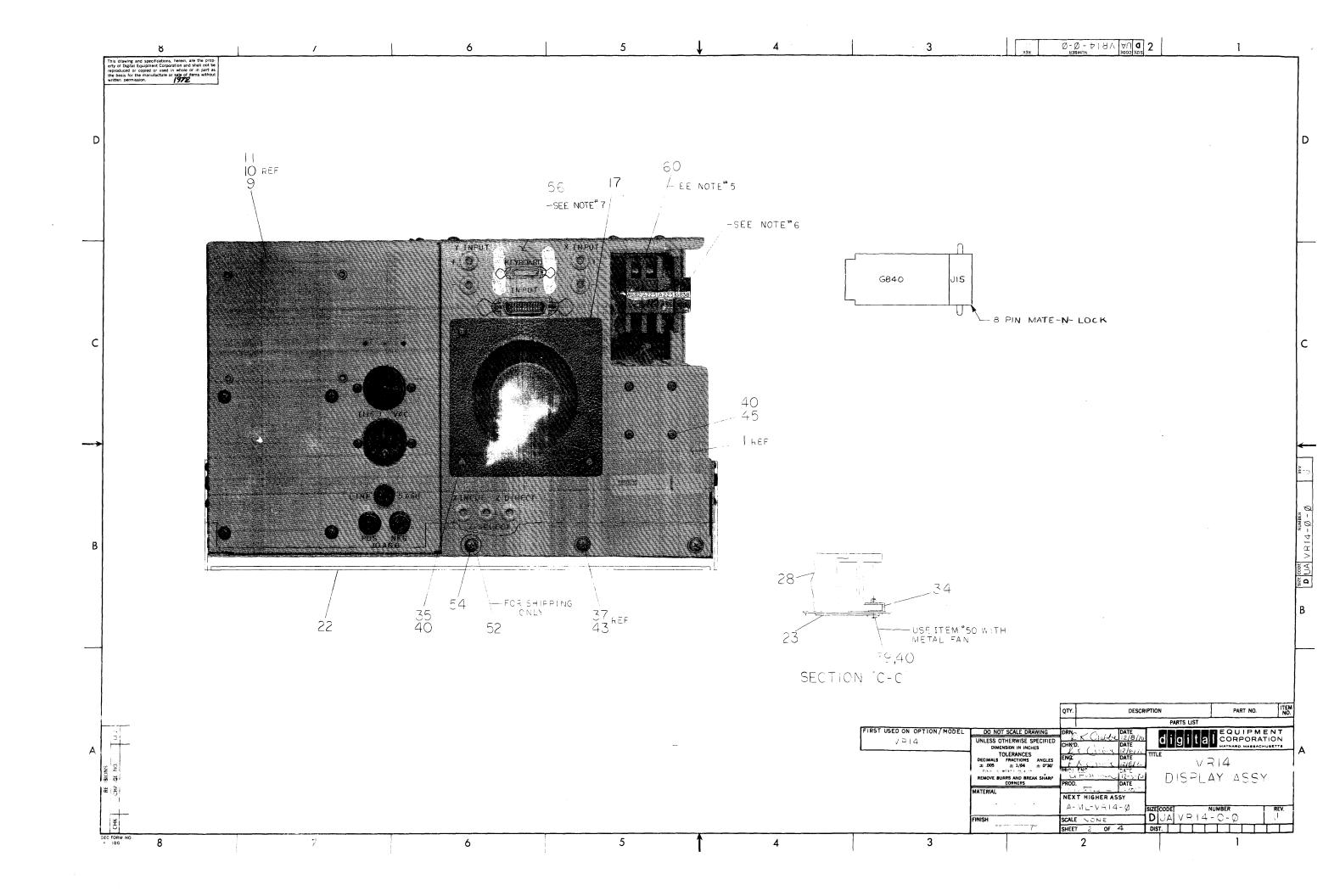


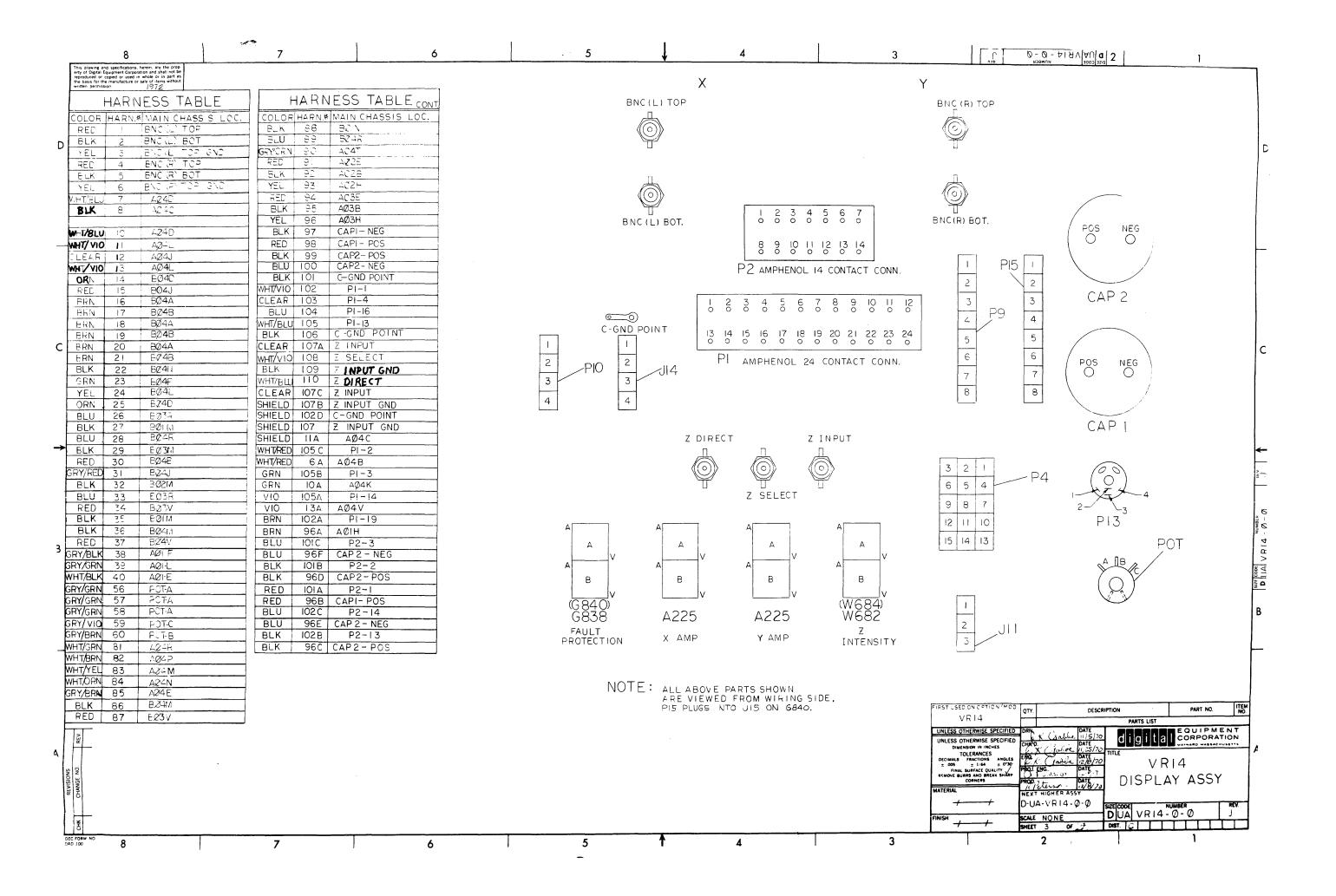


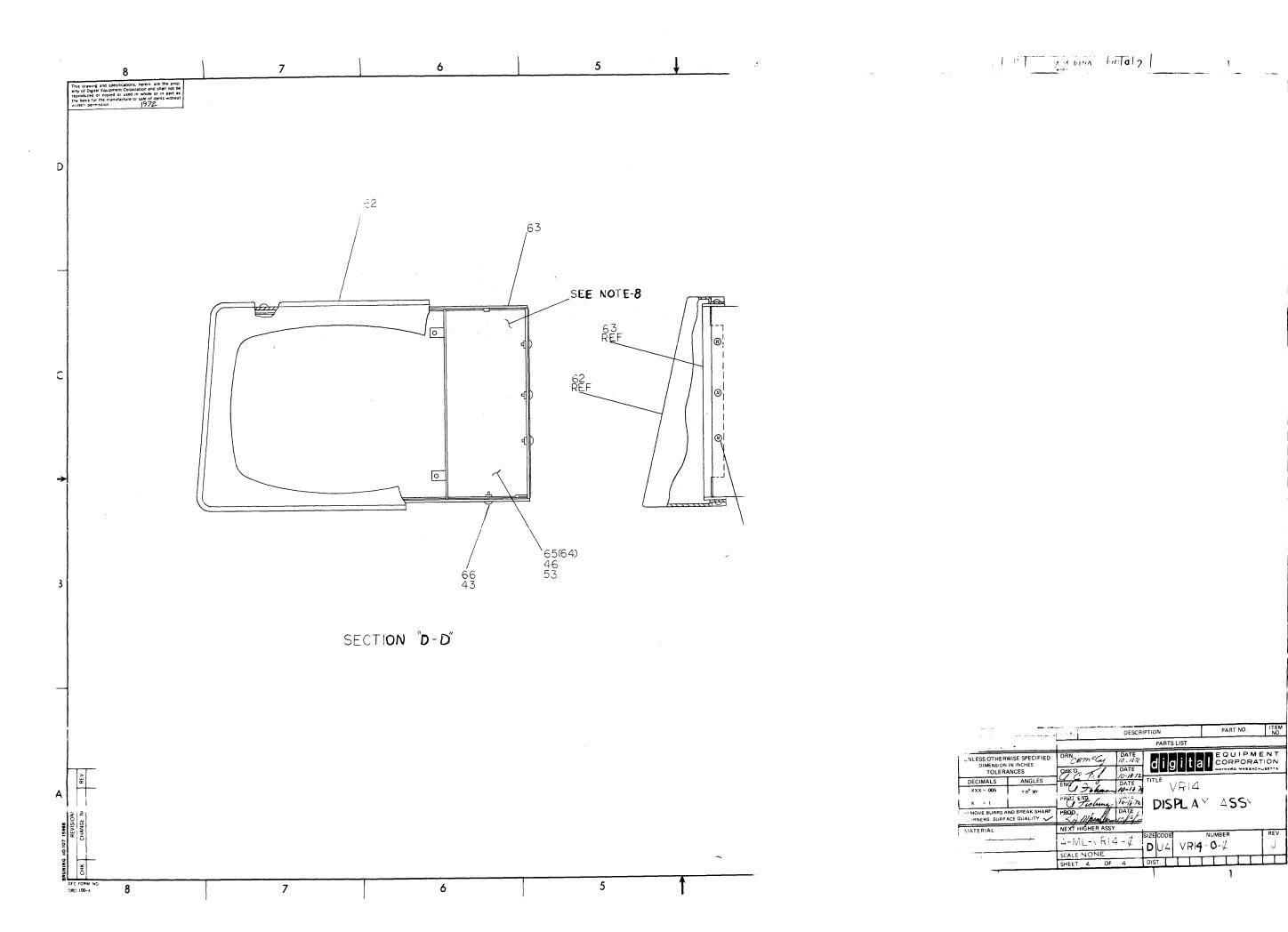
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						QUANTITY/VARIATION											
MADE BY D.K. Crabbe DATE 9/28/70 ENG OK. Cobbe DATE 11/6/70		PARTS LIST CHECKED ().X DATE 10 PROD R POSTO DATE 1/6/20	1. C/08. De 0/8/70	SECTION	1 ECT. 1	VR14-Ø	VR14-A	VR14-B	VR14-C	VR14-D	VR14-E	VR14-LC	VR14-LD				
NO.	DWG NO. / PART NO.	DESCRIPTION			1	Δ									┷		
A225		Deflection Amplifier			2	2	2	2	2	2					\bot		
	W682	Intensity Amp	lifier			1	1	1	1	1	1_	-	_			\bot	
	G838	Fault Protect	ion			1	1	1	1	1	1	_	_			_	
	G840				A/R	A/R	A/R	A/R	A/R	A/R	A/R	1/R					
	W684	8 LEVEL INTEN	SITY			A/R	A/R	A/R	A∕R	A/R	A/R	1	1			\perp	
	A225-YB	DEFLECTION AMI	PLIFIER				_			_	_	2 -	2				
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riti	.ξ		ASSY NO.		SIZE	CODE			<u></u>	UME	BER			REV	. E.C.	- N	
MODULE UTILIZATION LIST A-MU-VR14-				R14-Ø-3		PL		7	/R14	-ø-	3			B	VR 00	022	
			SHEET 1		DIST		1	Ţ	J				I		I		

DEC FORM NO.16-1031 DRA 110







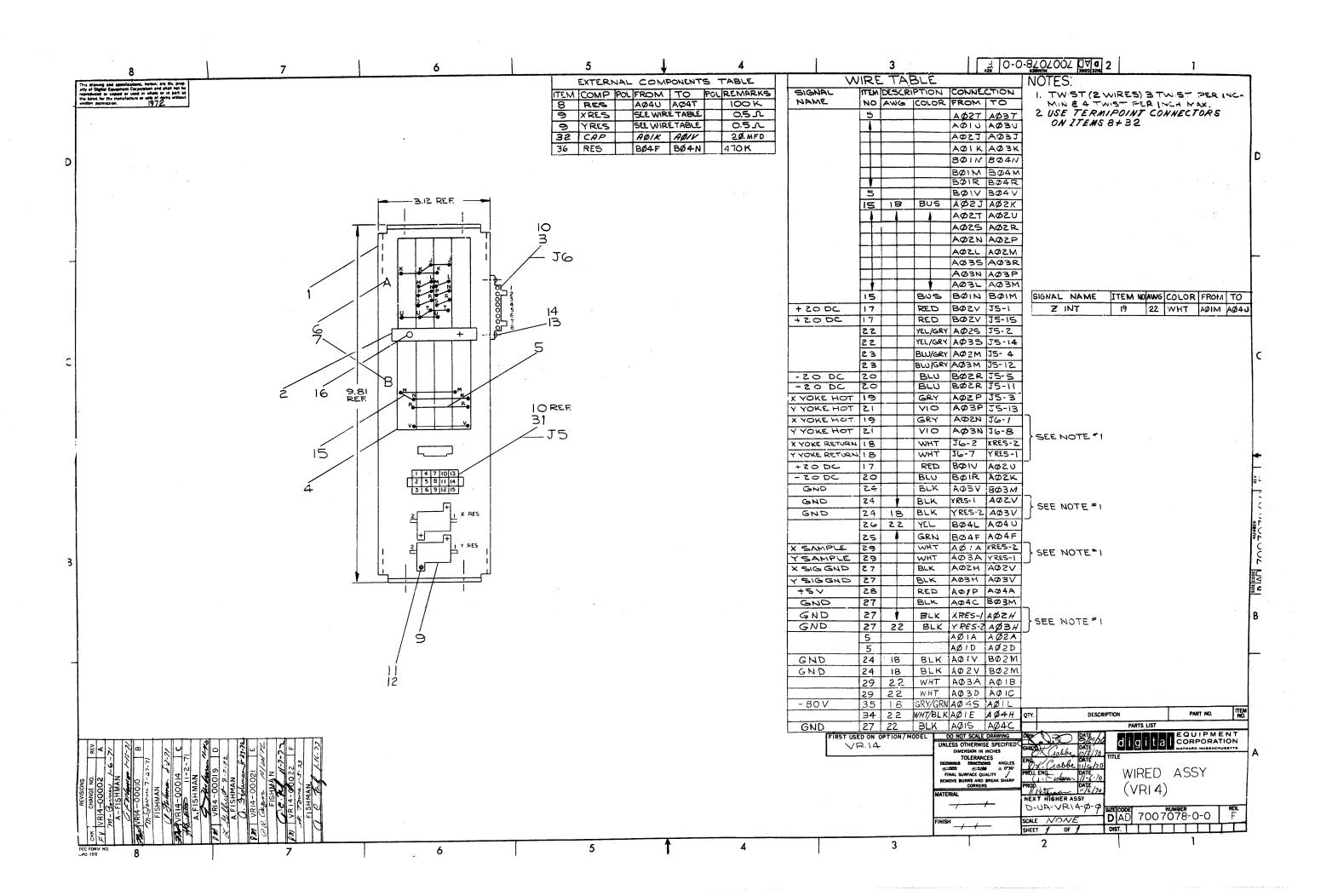


1	DIGITAL EQ	UIPMENT CORPORATI	O N		manife transmitter of a con-	Q	UAI	NTI.	TY/	VA	RIA	TION		
Red to the section of	MAYN	PARTS LIST												
1	E BY D.K. CRABBE	CHECKED Of Clobe	SECTION	$_{\alpha}$	41:	В	נו	٥	ы	ပ္	-LD			
DATI		PROD RPETERS	ISSUED SECT.	1 -4	4-1	4-1	4-C	<*!	4-1	4-I	4-I		1	
DATI		DATE 12/8/70	1	VR14-Ø	VR14-A	VR14-B	VR1	VR1	VR14-E	VR14-LC	VR14			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	١											
1	D-AD-7007077-0-0	TOP MTG ASSY		1	1	1	1	1_	1	1	1		<u> </u>	
2	C-IA-7409068-0-0	PANEL, CONTROL		11	1	1			<u></u> -		-		 	
3	D-AD-700 7078-0-0	WIRED ASSY		1 1	1	1	1	1	1	1	1		↓	
4	D-IA-70 07088-0 -0	C.R.T. YOKE ASSY]	1.	1	1	1	1	1	1		↓	
5	D-AD-700 707900	HIGH VOLTAGE ASSY		1	1	ì	1	1	1	1	1		<u> </u>	
6	D-AD-7007165-0-0	POWER REGULATOR ASSY (VR14	.)	1	1	1	1	1.	1	1	1			
7	D-AD-7007080-0-0	POWER SUPPLY HEAT SINK ASS	Y	1	1	1	1_	1	1	1	1		1	
8	D-AD-7 00 7082- 0 -0	DEFLECTION HEAT SINK ASSY	-	1	1	1	1	1	1	1	1		1	
9	D-AD-7007084-1- 0	POWER SUPPLY ASSY				_	ı	_		1	_		<u> </u>	
10	D-AD-7 0070 8 4-2- 0	POWER SUPPLY ASSY	•		1	_		1			1		<u> </u>	
11	D-AD-7007084 -3-0	POWER SUPPLY ASSY		<u> </u>		1			1	_			1	
12	E-IA-70 08457-0-0	MAIN CHASSIS HARNESS		11	1_	1	1_	1	1	1 .	1			<u> </u>
13	C-IA-7408411-0-0	GROUND, TUBE		1	1	1	1	1	1	1_	1			
14	C-IA-7408409-0-0	SHIELD, SAFETY		1	1	1	Ĺ	1	1	1	1			<u> </u>
15	C-MD-74 084 14 -0-0	HOLDER, CARD		1	1	1	1	1	1].	1			
16	E-IA-7406 8 91- 0 -0	BEZEL, CONTROL PANEL		1	1	1	1	1_	1	1	1		 	
17	C-MD-7408 4 34 -0-0	CAP (VR14)		1	1	1.	1	1	1	1	1		ļ	<u> </u>
18	D-MD-7406837-0-0	MASK, CATHODE RAY TUBE		1	1	1	-	_	_					<u> </u>
19	D-IA-7408408-0-0	SCREEN, SAFETY (VR14)		1	1	1	1	1	1	1	1			
20	D-IA-7408400-0-0	PLATE, BOTTOM MTG.		1	1	1	1	1_	1	1	1		ļ.,	<u> </u>
21	D-SC-1209147-0-0	SLIDE, 16" TRAVEL CHASSIS	TRACK	pł	pr_	pr	_	_					<u> </u>	
22	D-MD-7408549-0-0	CHASSIS TRACK BRACE			1	1	<u> </u>		<u> </u>				<u> </u>	
TITI	.E VR14 DISPLAY ASS	the state of the s	-ø △	PL			VR1	4-Ø				R E'V	VR	NO.
<u></u>		SHEET 1	OF, 4 DIS	Τ. €	5					\mathbf{L}		<u> </u>		
VEV	ENDM NO 16-1031													

	DIGITAL EQ	UIPMENT CORPORATION ARD, MASSACHUSETTS			Q	UAN	ITI	[Y/	VA	RIAT	TION		
DATE ENG DATE	12-2-70 0. X. Joube	PARTS LIST CHECKED OK. COLL. SECTION DATE 12/8/70 1 PROD RPOTE 12/8/70 1 DESCRIPTION	VR14-Ø	VR14-A	VR14-B	VR14-C	VR14-D	VR14-E	VR14-LC	VR14-LD			
23	C-MD-7404881-0-C	FAN SCREEN	2	2	2	2	2	2	2	2			
24	E-SC-1210104-0-0	C.R.T. SHIELD	1	1	1	1	1	1	2	2			
25	D-IA-7407791-0-0	SUPER COVER VR14											
26	B-MD-7407793-0-0	SPACER				` •		=					
27	B=MD=7407794=0=0	BAR, SPACER				1							
28	1209403-0	FAN, BOXER 7, BLADE	2	2	2	2	2	Ž	2	2			
29	1 2 095 97-6	CATHODE RAY TUBE TYPE 12 M63 THOMAS	ı	1	1	1	1	1	ï	1			
30	1 2 0957 6	KNOB # SS-70L-2-BLK BUCKEYE	1	Ţ	1	1	1	1	1	1			
31	1009 4 34	CAPACITOR, 5500 MFD 40 VDC-10, +100%	2	2	2	2	2	2	2	2			
32	3610267	"DANGER HIGH VOLTAGE" STICKER	1	1.	Ì	1.	I.	1	1	i			
33	9006584	SPEED NUT #C8091-6-32-4 TINNERMAN	4	4	4	4	4	4	4	4			
34	9008202	CLIP, FAN TINNERMAN	8	8	8	8	8	8	8	8			
35	9006022-1	SCR, FANHD PHL #6-32 X 3/8 SST	4	4	4	4	4	4	4	4			
36	90060 24-2	SCR.FLAT HD PHL #6-32 X 3 SST	4	4	4	4	4	4	4	4			
37	9006071 3	SCR, PHLETRUSS HD #10-32 X 3/8 SST	49	49	49	49	49	49	49	49			
38	9006071-2	SCR, PHL FLAT HD #10-32 X 3/8 SST	5	5	5	5	5	5	5	5			
39	9006024-1	SCR, PAN HD PHL #6-32 X 5 SST	8	8	8	8	8	8	8	8			L
40	9006633	WASHER, LOCK INT TOOTH #6	26	26	26	26	26	26	26	26			
41	9006560	NUT, KEPS #6-32	5	5	5	5	5	5	5	5			
42	9006070-1	SCR, PHL TRUSS HD #10-32 X 5/16 SST	10	10	10	2	2	2	2	2	L		Ŀ
43	9006635	WASHER, LOCK INT TOOTH #10	61	61	61	61	61	61	61	61			
44	9006020-1	SCR, PHL PAN HD #6-32 X 3 SST	4	.4	4	4	4	4	4	4			L
TITL	E VR14 DISPLAY ASSY	ASSY NO. D-UA-VR14-Ø-Ø SHEET 2 OF 4 DS	PL		VR	14-	NUMI Ø-Ø				RFV.	ECO	NC

-	DIGITAL FO	UIPMENT CORPORAT	10 N				0	<u></u> []Δ!	VTI.	TY	/ V A	RIA	TIC) N		
	MAYN	ARD, MASSACHUSETTS	1011					O A I								
GAM	E BY D. CRABBE	PARTS LIST CHECKED D. CRABBE	SECTION													
DATE		DATE 12-8-70	1		Ø	A	щ	ບ	Д	臼	LC	-LD				ĺ
ENG Date	D. CRABBE 12-8-70	PROD R. PETERSON DATE 12-8-70	ISSUED SEC	CT.	VR14-Ø	VR14-A	14-	VR14-C	VR14-D	VR14-E	VR14-LC	VR14-				
ITEM NO.	DWG NO / PART NO.	DESCRIPTION)N		VR	VR	VR	VR	VR	VF	VR	VR				
45	9006021-1	SCR, PHL PAN HD #6-32 X 5	6/16 SST		10	10	10	10	10	10	10	10				
46	9006563	NUT, KEPS #8-32			2	2	2	3	3	3	3	3				
47	9007651	WASHER, LOCK EXT TOOTH #1	LO		8	8	8	1	1	1	-	-				
48	9006074-2	SCR, PML FLAT HD #10-32	5/8 SST						_1	1						
49	90060252	SCR, PHL FLAT HD #6-32 X	5/8 SST		_	-		2	2	2	2	2				1
50	9006121	SCR, SELF-TAPPING #8-32	3/8 SST		8	8	8	8	8	8	8	8				¥
51	9006071-1	SCR, PHE PAN HD #10-32 X	· · · · · · · · · · · · · · · · · · ·		6	-6	-6	-6	-6	-6-						3
52	9008146	WASHER, FLAT .63 OD X .23		THK	1	1	1	_	-	_	_	_				
53	9006660	WASHER, FLAT .375 OD X			-	_	-	3	3	3	3	3				
	9006074-3	SCR, PHL TRUSS HD #10-32			1	1	1	_	_	-	-	-				
55	9107305	SHRINKIES (RED)			3	3	3	3	3	3	3	3				
56	7408407	DECALS (VR14)			1	1	1	1	1	1	1	1				
	C-IA-7408425-0-0	PANEL CONTROL (GT-40)														
58	7007006-3	JUMPER			1	1	1	1	1	1	1	1				
59	7008976	CHANNEL SELECT SWITCH			1	1	1	1	1	1	_	_				
60	C-UA-37 5-0 -0	LIGHT PEN OPTION			A/R	A/R	A/R	A/R	A/1	RA/I	A/F	A/F				
61	D-AD-7009027-0-0	SUPER COVER ASSY			_		_	1	1	1	1	1				
	E-PS-1211106-0-0	MASK			_	-	-	1	1	1	1	1				
63	E-IA-7409964-0-0	BRACE CHASSIS			-	_	-	1	1	1	1	1				
	C-IA-7409977-0-0	PANEL CONTROL (GT-40)			_	_	-	-	-		1	1				
65	C-IA-740997 4- 0-0	PANEL CONTROL (PDP-12)				1	-	1	1	1	_	-				
	9006073-3	SCR, PHL TRUSS HD #10-32	X ½ SST		_	-	_	6	6	6	6	6				
TITL	E VR14 DISPLAY AS	SY ASSY NO. D-UA-VR14	t t	SIZE	PL		V	R14-	, M U M E			•		EV.	ECO	NO.
	700M 200 1/2 (205) 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	SHEET 3	OF 4	DIST		工					I		1	工	\Box	
DEC			FION		1			1141	NTI.	TV	/ V A	RIA	TIC			\neg
	DIGITAL EQ	UIPMENT CORPORATION NAMED IN MASSACHUSETTS PARTS LIST	HON		-								Ĭ	T	T	
MAD	E BY D. CRABBE	CHECKED D. CRABBE	SECTION										1]	1	
DAT	E 12-2-70	DATE 12-8-70	ISSUED SEC	C T	_	ا ہر	_	١,,	_	(c)	ပ္ပ	-LD	l	1	1	l
ENG	7.00000	PROD R PETERSON DATE 12-8-70	1220ED 2E	61.	4-0	4-A	VR14-B	14-C	[4-D	14-E	VR14-LC	14-1		- 1		
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	N		VR14	VR14	VR.	VR14	VR14	VR14	VR.	VR14	Ì			
67	9107360-0-0	WIRE #18 AWG IVPC BLK				_	=	A/I	RA/I	A/F	A/F	A/R	\Box		\bot	
68	9007930-0	CONN, ARKLES #50360-1				_	_	1	1	1	1	1			ightharpoonup	
69	9007935-0	CONN, #300H21A-1K				_	_	1	1	1	1	1				
70	9006637	WASHER, INT TOOTH 3/8 II	#1220		1	1	1	1	1	1	1	1		\dashv	$ \bot $	
71	9007081	CLAMP, CABLE 1/4 ID			1	1	1	1	1	1	1	1		\dashv		
														\dashv		
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	DIGITAL EC	UIPMENT CORPORATION			Q	UA	NTI	TY/	VA	RIA	TION		
MAD DATE ENG DATE	E BY D. CRABBE 12-2-70 D. CRABBE	PARTS LIST CHECKED B. CRABBE DATE 12-8-70 PROD R. PETERSON DATE 12-8-70 ISSUED SECTION		VR14-0 VR14-A	VR14-B	VR14-C	VR14-D	VR14-E	VR14-LC	VR14-LD			
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		VR14	VR	VR	VR	VR	VR	VR			
67	9107360-0-0	WIRE #18 AWG IVPC BLK	=		<u> -</u>	A/1	A/I	A/F	A/F	A/R		<u> </u>	-
68	9007930-0	CONN, ARKLES #50360-1	_=	1-	<u> </u>	1	1	1	1	1		 	
69	9007925-:)	CONN, #300H21A-1K			<u> -</u>	1_	1	1	1	1			ļ
70	9006637	WASHER, INT TOOTH 3/8 ID #1220		1	1	1_	1	1	1	1		╀—	ļ
71	9007081	CLAMP, CABLE 1/4 ID		1	1_	1	1	1	1	1		1_	
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and the second			!_	Ц	<u>L</u>						+	<u></u>	
TITL	VR14 DISPLAY A		ZE CO		V	R14	-0-(,			ECO	NO.
		SHEET 4 OF 4 D	IST.										



	DIGITALEQ	UIPMENT CORPORATION LARD, MASSACHUSETTS			QI	JANT	ITY	/ V A	RIA	TIC	ИС		
	MAYN	PARTS LIST											
MAD DATE ENG		CHECKED D. Crabbe DATE 10/2/70 1 PROD R Peters ISSUED SECT.							1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				TO MAN NO.
DAT		DATE 11/6/20 1											,
IŢEM NO	DWG NO. / PART NO.	DESCRIPTION										TOTAL STREET	
1	D-IA-740 1422-0-0	FRAME, LOGIC	1			W. C.							
2	B-MD-740 114-0-0	BAR,MTG	1										
3	1209340-30	8 CIRCUIT MATE-N-LOK SOCKET AMP	1								75 8 100 0		Officery model to be a
4	1202244	144 CONNECTOR BLOCK	1										and the second second
5	1202188	VOLTAGE CHAIN	A/R										
6	A-SS- 530∺753 - 0-2	LOGIC FRAME DECALS	A/R				T						
7	A-SS-5308753-0-4	LOGIC FRAME DECALS	A/R										
8	1302466	RESISTOR 100K 1/4W 5%	1										
9	1310180	RESISTOR 0.5 \(\times 20 \times 1\% \)	2										
10	1209379-(1	CONTACT TERM PIN SOCKET AMP. INC.	14										5.
11	9006011-1	SCR,PHL HD PAN #4-40 x 3/8 SST	4										
12	9006557	NUT, KEPS #4-40	4										
13	9006021-1	SCR, PHL HD PAN*6-32 x 5/16 SST	2										
14	9006560	NUT, KEPS #6-32	2										
15	9107560-1	#18 AWG SOLID BUSSING	A/R										
16	9006120	POZIDRIVE SCR FIL HD 8-32 x 5/8 SST	2										
17	9107360 -22	#18 AWG STRD TEFLON (RED)	A/R										
18	9107360-9	#18 AWG STRD TEFLON (WHITE)	A/R										
19	9107360-88	#18 AWG STRD TEFLON (GRAY)	A/R										
20	9107 360 –€6	#18 AWG STRD TEFLON (BLUE)	A/R										
21	9107360-77	#18 AWG STRD TEFLON (VIO)	A/R										
22	9107410-64	#18 AWG STRD TEF TRACER (GRAY/YELLOW)	A/R										
TITI	LE WIFED ASSEMBLY	ASSY NO.			7	NUN 00707	1 BER 8 - 0			R		VRI	4
		SHEET 1 OF 2 DIS		<u>}</u>			Τ			士		00C	155

DEC FORM NO.16-1 31

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		PARTS LIST							į	
ATE	E B V J. Cahill: 11/3/70	CHECKED D. Crabbe	SECTION	1					AND MEDICAL TO A PACE OF	A YOUR REPORT OF EXT. 8, P.
NG ATE	O.K. (200be	PROD R. Peterian DATE 11/6/70	ISSUED SECT.						Marian Value, se person (Liv	TOTAL CARE
EM O	DWG NO. / PART NO.	DESCRIPTION	N					THE ATT STATE AND STATE OF THE	The state of the s	DATE OF THE PARTY OF
3	910741.0 - 3 6	#18 AWG STRD TEF TRACER	(GRY/BLU)	A/R						
4	9107360-10	#18 AWG STRD TEF WIRE	(BLACK)	A/R						
25	9 1073 50 - 5 5	#22 AWG STRD TEF WIRE	(GREEN)	A/R						
6	9107350- 44	#22 AWG STRD TEF WIRE	(YELLOW) A/R						
7	91073 50 -) 0	#22 AWG STRD TEF WIRE	(BLACK)	A/R						
28	9107350 - 2 2	#22 AWG STRD TEF WIRE	(RED)	A/R						grade (desire)
29	9107350- 99	#22 AWG STRD TEF WIRE	(WHITE)	A/R						
30	9107256-1	#22 TEF TUBING	(BLACK)	A/R		_				
31	120935 0- 15	CONN PIN HOUSING MATE-N-	LOK AMP	1						
2	1010195 -0	CAPACITOR 20 mFd 100V	10%	1						
33	9007230	TERMI POINT CONNECTORS		6						
34	9107420 -09	#22 AWG STRD TEF TRACER	(BLK/WHT)	A/R						- Section
35	9107410-85	#18 AWG STRD TEF TRACER	(GRY/GRN)	A/F						1
36	1302398	RES. 470K 1/4W 5%		1					W. Drome D	
										1
										-
								$\bot \bot$		-
										1
										\bot
		<u> </u>			<u> </u>			 _	<u> </u>	L
ITI	WIRED ASSEMBLY (ASSY NO. D-AD-70070		PL	700,7	NUMBER 078-0-0		F	Y ECC	NC
		SHEET 2	OF 2 DIS	L-,		T	TT	' T		T

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DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 10/22/70

TITLE VR14 SPECIFICATION

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
REV						
			İ			

GENERAL DESCRIPTION

The VR14 is a self-contained CRT display unit requiring only analog position and digital unblanking information. It is designed for use with a digital display controller. The amount of information displayed depends on the specific system; however, 1250 random points can be displayed flicker free at a 40 Hz. refresh rate. Viewable area is 62 inches square with an aspect ratio of 3:4. The unit is 10 1/2 inches high, 19 inches wide, 17 inches deep, and weighs about 75 pounds. It is available in either a rack mounted or table top model.

OPERATOR CONTROLS (All controls labeled as to function)

Front Panel:

DEC FORM NO.

Manual brightness control and AC Brightness / ON-OFF

power switch.

Operator selection of either channel Channel Select

1 or channel 2 if a time multiplexed

signal is available.

Internal Controls: These controls accessible from the top of the unit

through the safety screen.

Deflection Controls: The following controls are 10 turn pots located

on the deflection amplifiers (A225). All inputs have protection against mementary excessive

voltage.

Controls horizontal input sensitivity. X Gain

Controls vertical input sensitivity. Y Gain

Manual Position Control. X Position

Manual Position Control. Y Position

NOTE: With deflection inputs grounded, the position controls allow

the beam to be positioned anywhere within the usable

screen area.

REV SIZE CODE NUMBER F phone 19/28/70 APPD Sale 10/28/70 A $VR14 - \emptyset - 4$

SHEET 1 OF 4

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

THILE VR14 SPECIFICATION

CRT Controls: These controls are 10 turn pots located on the G836

power supply module. Their purpose is to adjust focus and grid bias voltages. They are adjusted at the

factory.

Focus: Adjusted for best overall focus.

Brightness Preset: To adjust the range of the front panel brightness

control.

GENERAL ELECTRICAL SPECIFICATION

Spot Size: ≤ 20 mils inside the usable screen area at a brightness of

30 footlamberts. Spot size is measured using shrinking raster technique at a brightness of greater than 30 foot-

lamberts.

Jitter: $\leq \pm 1/2$ spot diameter.

Repeatability: ≤ ± 1 spot diameter

(Repeatability is the deviation from the nominal

location of any given spot)

Gain Change: From a fixed point on the screen, less than ± 0.3 percent

gain change for each \pm 1 percent line voltage variation.

Temperature Range: 0 to 50°C operating

Relative Humidity: 10 to 90 percent noncondensing.

Brightness: ≥ 30 footlamberts; measured using a shrinking raster

technique.

Linearity: Maximum deviation of any straight line will be ≤ 1 percent

of the line length measured perpendicular to a best fit

straight line.

Deflection Method: Magnetic (70° diagonal deflection angle)

Focus Method: Electrostatic

High Voltage: 11.7 KV DC nominal (voltage proportional to input line

voltage). Supply is self-contained and equipped with a

bleeder resistor.

Shielding: CRT is fully enclosed in a magnetic shield.

Overload Protection: Unit is protected against fan failure or air

blockage by thermal cutouts.

SIZE CODE NUMBER SP

VR14 - Ø - 4

REV

DEC FORM NO 16-1022

DEFLECTION AMPLIFIER SPECIFICATION

- 1. Deflection Amplifiers are DC coupled and are capable of sustaining a worst case AC or DC deflection at environmental extremes.
- 2. Input Specification
 - A. Inputs are differential.
 - B. Differential input impedance . . . 5K ohms minimum.
 - C. Input sensitivity . . . 200 mv/inch maximum.
 - D. Common Mode Rejection Ratio . . . 40 db.
 - E. Maximum Operating Input . . . ± 6V. (Maximum operating input is the sum of the common mode input and the differential input.)
 - F. Input offset not to exceed ± 1/2 peak to peak input signal.
 - G. Maximum non-operating input . . . ± 50V.
- 4. Small signal settling time to within 1/2 spot diameter . . . \leq 1 μs for a 0.1 inch deflection.
- 5. Small signal linear slew rate . . . \geq 0.4 in 1 μ s.
- 6. Velocity error coefficient . . . 500 ns. maximum. (Average ramp delay between input and output.)

Z AXIS SPECIFICATION

- 1. Z Input
 - A negative transition from $\geq +2.4V$, but not exceeding +8V, to $\leq +0.8V$, but not less than -4V, in ≤ 20 ns will cause an unblanking pulse at the CRT cathode from approximately +60V to ground with a duration of ≥ 200 ns at the 50 percent points. Delay between the 50 percent point of the negative input transition to the 50 percent point of the output pulse is less than 100 ns.
- 2. Z Direct

A positive going pulse not exceeding 35V, but at least 20V in height and not exceeding 10 μs , but at least 1 μs in duration will unblank the CRT to a viewable intensity. This signal is AC coupled to the CRT grid.

3. Channel Select

With the Channel Select Switch in the Channel 1 position, a positive level of greater than +2.4V, but not exceeding +8V will enable the Z input circuit. A level of less than +0.8V but not less than -4V will disable the circuit. With the switch in the Channel 2 position, a positive level will enable the Z circuit; a negative level will disable it. Placing the switch in the Channel 1 and 2 position disables this input.

SIZE	CODE	NUMBER	REV
Α	SP	VR14 - Ø - 4	

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE VR14 SPECIFICATION

POWER SUPPLY SPECIFICATION

1. All power supplies necessary for operation of the unit are self contained.

2. Input Requirements

Voltage:

100 V ± 10 percent

117 V \pm 10 percent 230 V \pm 10 percent

Selectable by tap changes.

Frequency: 50 - 60 Hz.

Power: ≤ 500 Watts

Current: ≤ 5 Amperes

Type: Single Phase

NOTE: Different AC power receptacles are provided on 200 and 230 $\mbox{\em V}$

Units.

3. Fuses are provided and labeled as to function, type, and rating for the primary circuit and deflection power circuits.

4. Thermal Cutouts, which operate on the AC primary, are used to prevent damage due to fan failure, air blockage, or excessive ambient temperature.

REAR PANEL CONNECTIONS

DEC FORM NO 16-1022

Deflection Inputs: BNC connectors labeled X+, X-, and Y+, Y-.

With operator facing the screen and the polarity switches in the up position, if X+ is positive with respect to X-, deflection is to the right and, if Y+ is positive with respect to Y-, deflection is up.

CRT Inputs: BNC connectors labeled Z input, Z direct, and channel.

Z input is a TTL compatible input which generates a pulse at the CRT cathode for each negative transition.

Z direct is an AC coupled input to the CRT grid circuit.

Channel is a TTL compatible input which, in conjunction with the Channel Select Switch, enables or disables the Z input circuit.

NOTE: All above inputs are available at a 24 pin plug, DEC No. 1209630.

SIZE CODE NUMBER
SP VR14 - Ø - 4

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DEC FORM NO SHEET 3 OF

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	DIGITAL EQUI MAYNAR	PMENT D, MASSAC	_	RAT	ION	
EN	GINEERING SPECIFICAT	ION			DATE 9/20/	71
TITLE	VR14 CHECKOUT AND ACCE	PTANCE PROC	EDURE			
		REVISIONS				
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
Α	ECO CHANGE		A.FILZ	3/72	a) John	3-28-72
В	ECO CHANGE	00022	A FISHMAN	1/73	acks	1-16-73

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE

VR14 CHECKOUT PROCEDURE AND ACCEPTANCE PROCEDURE *

I. <u>INTRODUCTION</u>

The VR14 is a completely self-contained CRT display providing a 6.75 inch by 9 inch viewing area in a compact 19 inch package. The VR14 requires only analog X and Y position information with an intensity pulse to generate sharp, bright point plot displays.

II. SOFTWARE

- A. Manuals
 - 1. VR14 Users Manual
 - 2. PDP-12 Systems Reference Manual
- R. Prints
 - 1. VR14-Ø
 - 2. VC12-Ø
 - 3. EM12-Ø
- C. Diagnostics

DEC FORM NO 16-1022 DRA 108

- 1. Display Test Maindec 12-D68C (Maindec-12-D6BB could also be used)
- * Acceptance Procedure consist of Section VI through Section X excluding VI-1, VI-10, and VI-10.

SIZE CODE NUMBER VR14-0-5 B

SHEET 2 OF 31

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no tolwan	APPD .	×21.00	A	CODE SP	NUMBER VR14-0-5	REV B
C FORM NO. RA 107		el			SHEETC	F 3

ENGINEERING SPECIFICATION digital **CONTINUATION SHEET** TITLE A. Basic Mechanical Check Check all knobs for position and tightness All silk screening is correct and legible All AC and high voltage is covered and labeled Slides work correctly Tube face and phosphor are not damaged Serial number tag is present and correct 110v, 220v labeling is correct Cables are correct type and length All decals are present and on straight All switches operate smoothly Module block is not cracked or broken Deflection coil is properly adjusted and tightened No chips or scratches on painted surfaces All shrinkies are secure

No loose parts or filings on bottom of chassis

High voltage connection on CRT is secure

All crimped terminations are mated and seated

Check for wiring touching power transistor cases

III.	TEST EQUIPMENT
	A. Off-Line Test
	1. VOM
	B. On-Line Test
	1. VOM
	2. Oscilloscope
	3. EP12
	4. EM12
	5. TU56
	6. TC12
	7. TTY
	8. VC12
	C. Special Test Equipment
	None Required
IV.	OFF-LINE CHECKOUT PROCEDURE
	CAUTION: The CRT is under high vacuum and is potentially
	in danger of explosion if subject to sharp
	blows or rough handling.
 	SIZE CODE NUMBER RE
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CONTINUATION SHEET

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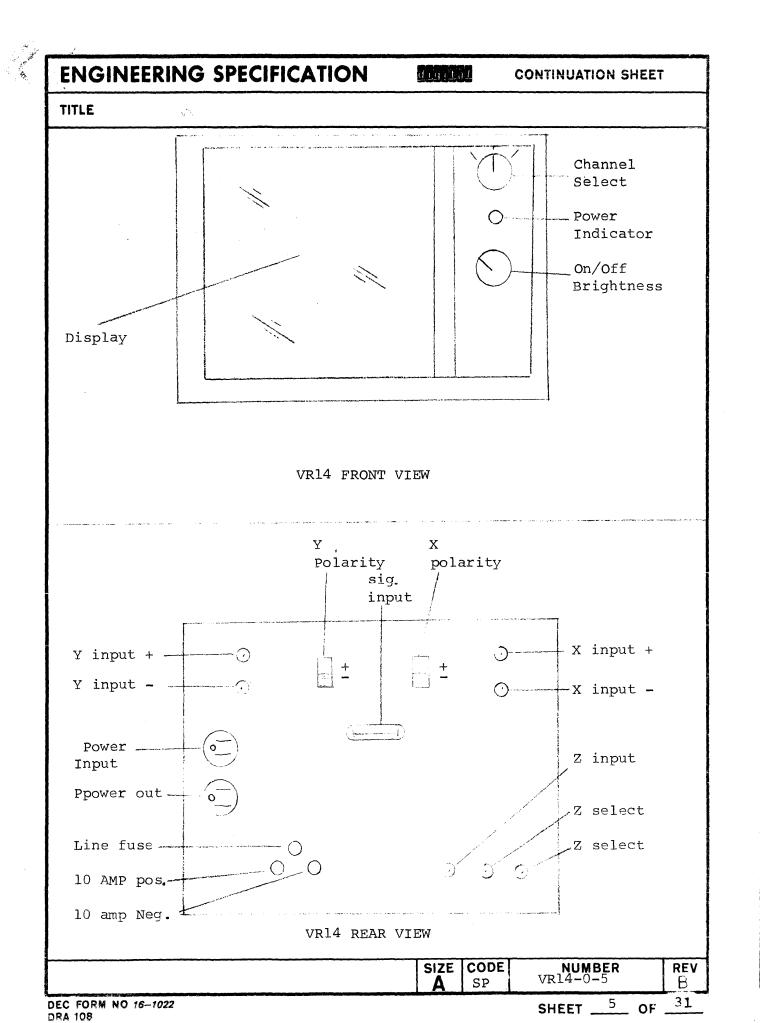
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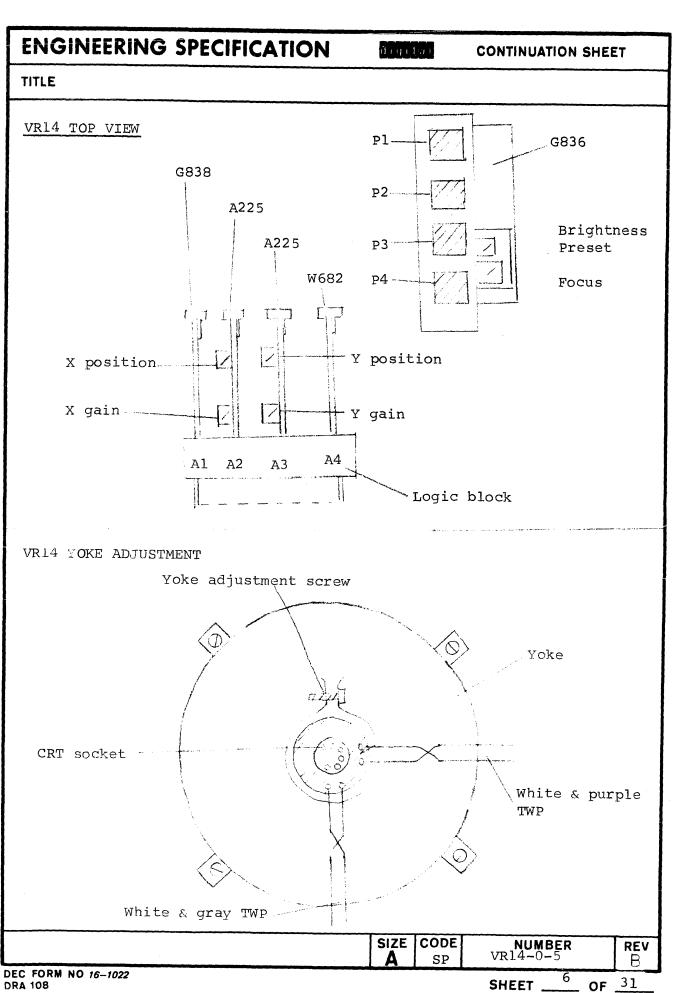
15.

17.

Check wire dress

Check for proper fan operation





digital

CONTINUATION SHEET

TITLE

- Basic Electrical Check
 - Remove the following modules from the VR14 under test.
 - G838 Location AØ1
 - A225 Location AØ2
 - A225 Location AØ3
 - W682 Location AØ4
 - Unplug the CRT socket from the CRT.
 - Check all fuses for proper value.
 - 5 AMP Slow Blow (Line Fuse, 110v).
 - 3 AMP Slow Blow (Line Fuse, 220v).
 - F3 NEG 10 AMP
 - d. F3 POS 10 AMP
 - Check the on-off brightness control and put it in the off position.

Check that the line voltage applied is the same as the voltage required by the unit under test.

5. Plug in AC line cord to the proper line voltage required.

> SIZE CODE NUMBER **REV** В VR14-0-5

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CONTINUATION SHEET

TITLE

DC VOLTAGE CHECKS

The next series of tests are voltage tests. The meter should be set up and connected to the test points first then power turned on for a minimum amount of time (1 to 3 seconds). It is very important that power be on only briefly because if a fault does exist damage to the unit can be avoided. Never leave power on even if correct voltage is observed because a fault may exist that will not be detected until a later test.

- Perform the following voltage checks using the procedure outlined above.
 - Perform voltage check number 1 of table 1.
 - Perform voltage check number 2 of table 1.
 - Perform voltage check number 3 of table 1.
 - Perform voltage check number 4 of table 1.
 - Plug in the W682 in location AØ4. Perform voltage check number 5 of table 1.
 - f. Perform voltage check number 6 of table 1. Adjust the front panel brightness control through its full range

		TEST		vo	M		VOLTAGE	NOTES	RFV TV
CONTINUATION SHEET			SCALE	RANGE	+ PROBE	- PROBE			
IS N		7	DC	120 0 V	в ø4 Ј	В Ø1 М	+350VDC TO -60VDC	ADJUST FOCUS CONTROL TO CHECK.	5 ER
ATIC				•	٠.		Tolerance = ± 25 VDC	(G836) CCW= -60VDC	CO
JUL								CW= +350VDC	NUM VR14-0
CON		8	AC	12v	CRT	CRT	6.3 VAC		
					SOCKET	SOCKET	Tolerance = + .3VAC		CODE SP
					PIN 1	PIN 12	- ·		
		9	DC	1200V	CRT	CHASSIS	+350VDC		SIZE
					SOCKET	GND.	Tolerance = ±25VDC		J.,
			5 5		PIN 10				
2		10	DC	300v	CRT	CHASSIS	-80VDC TO -20VDC	ADJUST THE BRIGHTNESS CONTROL ON	
SPECIFICATION		:			SOCKET	GND.	Tolerance = +10V. THE	THE FRONT PANEL TO VARY THIS	
ַלַ					PIN 2		-20VDC MAY BE 0.	VOLTAGE.	
5		11	DC	1200v	CRT	CHASSIS	+350VDC TO -60VDC	ADJUST THE FOCUS CONTROL TO VARY	
2		; *			SOCKET	GND.	Tolerance = $+25$ VDC	THIS VOLTAGE. (G836)	
					PIN 6		-	CCW= -60VDC	
		12	DC	6 0 V	в ø1 v	в Ø1 м	Nominal = ± 21.5 V	THIS VOLTAGE SHOULD NOT	
					•		Tolerance = +2V,	EXCEED23.5VDC OR BE LESS THAN	
ENGINEERING				<i>,</i>			-1v.	20.5VDC.	
2	<u> </u>	,					- v •		
5	TITLE								

-	TEST	SCALE	RANGE	VOM + PROBE	- PROBE	VOLTAGE	NOTES	RFV
	1	DC	60V	D1-4	CHASSIS GND.	+45VDC	D1-4 SHOULD HAVE AN ORANGE WIRE	3ER
						Tolerance = ±5V	ON THIS TERMINAL.	NUMBER
5	2	DC	6 0 V	CHASSIS	D 2-4	-45VDC	D2-4 SHOULD HAVE A GREEN WIRE	
				GND.		Tolerance = +5V	ON THIS TERMINAL.	CODE
	3	AC	1.2V	в Ø4 А	В Ø4 В	6.3VAC		SIZE
						Tolerance = \pm .3V		
5	4	DC	1200V	в Ø4 D	в Ø1 м	+350VDC		
					· .	Tolerance = +25V		
	5	DC	300v	CRT	CHASSIS GND.	+60VDC	PLUG IN THE W682 IN	
- 1		· .		SOCKET, PIN 11	GAD.	Tolerance +6V	LOCATION AØ4.	
	6	DC	6 , 300v	в ø1 м	в ø4 F	-80VDC TO -20VDC	ADJUST THE FRONT PANEL	
		į.				Tolerance +10V. The	BRIGHTNESS CONTROL TO VARY	
TITLE				* :		-20VDC COULD BE AS LOW	THIS VOLTAGE.	
TITLE		÷ ,				AS 0.		

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		18			17		16			15			14		13	TEST
		DC			DC		DC			DC			DC		DC	SCALE
		12V			12V		12V			12∇			12V		60V	RANGE
		вø1м			AØ2A		AØ4A			AØ3A			AØ2A		вø1м	VOM + PROBE
		АØЗА			в ø1 м		в ø1 м			вø1м			в ø1 м		BØ1R	- PROBE
		+2.6VDC TO -2.6VDC			+2.6VDC TO -2.6VDC	(+6VDC MAX.)	+5VDC (+4VDC MIN.)			ØVDC			ØVDC	Tolerance = $-2V$, $+1V$	Nomina1 = -21.5VDC	VOLTAGE
THE A225 IN LOC. AØ3.	B. ADJUST THE POSITION FOT ON	A. PLUG IN THE A225 LOC. AØ3.	THE A225 IN LOC. A02.	B. ADJUST THE POSITION FOT ON	A. PLUG IN THE A?25 LOC. A02.	AØ1.	PLUG IN THE G838 LOCATION	BE ØVDC.	LOCATION AØ3 THIS VOLTAGE MUST	WITH THE A225 REMOVED FROM	BE ØVDC.	LOCATION A02 THIS VOLTAGE MUST	WITH THE A225 REMOVED FROM	-23.5VDC OR BE LESS THAN .	THIS VOLTAGE SHOULD NOT EXCEED	NOTES
						· · · · · · · · · · · · · · · · · · ·			1	SIZE A	co	DE	VR]	NUMB I L4-0-5	ER	RFV B

	PECIFICATION	GILLATION SHEET
	VOLTAGE CHART	
All vol	tages measured with respect	to ground
	(chassis or BØlM, N)	
*Indica	tes voltage depends upon in	nput signal
Circuit Block		
AØ2A	* +3 volts nominal	X Current Sample
AØ3A	* ±3 volts nominal	Y Current Sample
AØ2E, B	*	X Input Signal
А Ø 3Е, В	*	Y Input Signal
AØ1U, BØ1V	+21.5 VDC (red)	+ Regulated D.C.
AØ1K, BØ1R	-21.5 VDC (blue)	- Regulated D.C.
AØ1P	+5 VDC	For W682
B Ø4 A	3.5 VRMS	1/2 Filament
вØ4в	3.5 VRMS	1/2 Filament
B Ø4 D	+400 VDC	G2
BØ4F	0 to -80 VDC	Brightness (G1)
В Ø4 Ј	-80 VDC to -400 VDC	Focus
B Ø4 L	* +60 volts	Cathode With Negative Pulses
Brightness Pot		
Gray/Green	-80 VDC	
	TABLE VR14-2	

DEC FORM NO 16-1022 DRA 108 SHEET 12 OF 31_

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e à contract vival enfocience de admissible dell'envent dell'annien dell'envent		VOLTAGE CHART	- (CONTIN	wed)
Deflection	n <u>Heat Sink</u>	- <u>P5</u>		
X AXIS	Y AXIS			
P5 - 2	P5 - 14	+20.5 VDC	PNP Base (2N4399)
P5 - 1	P5 - 15	+21.5 VDC	PNP Emitter	(2N4399)
P5 - 3	P5 - 13	* <1 volt	All Collect	ors
P5 - 4	P5 - 12	-20.5 VDC	NPN Base (2N5302)
P5 - 5	P5 - 11	-21.5 VDC	NPN Emitter	(2N5302)
De sul en eu	West Cirls	n 2		
Regulator	<u>Heat Sink</u>	<u>- P3</u>		
P3 - 1	÷	+43 VDC Orang	e	Emitters of 2N4399
P3 - 2		+42 VDC Gray/	Yellow	Bases of 2N4399
P3 - 3		+21.5 VDC F	ted	Collectors of 2N4399
P3 - 12		-43 VDC Green		Emitters of 2N5302
P3 - 11		-42 VDC Gray/	Blue	Bases of 2N5302
P3 - 10		-21.5 VDC E	l'ue	Collectors of 2N5302
G836 Regui	lator <u>Circ</u> u	it Connectors -	- <u>P1</u> , <u>P2</u> , <u>P4</u>	
PJ - 1		+43 VDC		Raw + D.C.
P1 - 3, 6		Ground		
P1 - 4		-43 VDC		Raw - D.C.
		TABLE	VR14-2	
			SIZE	SP VR14-0-5

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rle		
	VOLTAGE CHART - (CONTIN	ŒD)
P2 - 1	3.5 VRMS	1/2 Filament
P2 - 2, 4, 7, 9	Ground	
P2 - 3	3.5 VRMS	1/2 Filament
P2 - 5	70 VRMS (200 P-P)	<u>+</u> 80 v. tap
P2 - 6	150 VRMS (400 P-P)	+400 v. tap
P4 - 1	+21.5 VDC Red	+ Regulated
P4 - 2, 14	Ground Black	
P4 - 3	+21.5 VDC Red	Hot + Sense
P4 - 4	0 VDC Black	Cold + Sense
P4 - 5	-80 to +400 VDC Gray/Red	Focus
P4 - 6	+400 VDC Orange	G2
P 4 - 7	3.5 VRMS Brown	Filament
P4 - 8	3.5 VRMS Brown	Filament
P4 - 9	-80 VDC Gray/Green	To Brightness Pot
P4 - 10	0 to -40 VDC Gray/Violet	Brightness Preset
P4 - 11	+80 VDC Gray/Orange	For W682
P4 - 12	-21.5 VDC B ne	Hot - Sense
P4 - 13	O VDC Black	Cold - Sense
P4 - 15	-21.5 VDC Blue	- Regulated
	TABLE VR14-2	
<u></u>	SIZE	CODE NUMBER RE

DEC FORM NO 16-1022 DRA 108 DEC FORM NO 16-1022



CONTINUATION SHEET

TITLE

DEC FORM NO 16-1022

- OFF = OVDC
- FULLY CCW -80VDC
- FULLY CW = between 0 and -20VDC
- Perform voltage check number 7 of table 1 and vary the focus control pot. Adjust this pot to its limits. Reset to approximately + 300 VDC after testing.
- h. Make the following voltage checks at the CRT socket.
 - (1) No. 8 Table 1
 - No. 9 Table 1
 - (3) No. 10 Table 1. Vary the brightness control on the front panel to insure proper operation.
 - OFF OVDC
 - FULLY CCW -80 VDC
 - FULLY CW between 0 and -20VDC
 - Perform check number 11 Table 1. Adjust the focus control on the G836 a minimum amount to insure that the focus control varies this voltage. Reset to +300 after test.
- i. Perform voltage check number 12 of table 1.

SIZE CODE

VR14-0-5

SHEET $\frac{15}{}$ OF $\frac{31}{}$

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE

- j. Perform voltage check number 13 of table 1.
- k. Perform voltage check number 14 of table 1.
- 1. Perform voltage check number 15 of table 1.
- Plug in the G838 in location A01 and perform voltage check number 16 of table 1.

On A225 voltage checks number 17 and number 18, shut off the VR14 immediately if the voltage exceeds +2.6VDC and cannot be turned down by the position trim pot.

- n. Plug in the A225 in location $A\emptyset2$ and perform voltage check number 17 of table 1. Adjust the position trim pot on the A225 to insure proper control of this voltage. After test position to +2.5VDC.
- o. Plug in the A225 in location AØ3 and perform voltage check number 18 of table 1. Adjust position pot on the A225 to insure proper control of the voltage. After test position to +2.5VDC
- p. The case temperature of the "X" deflection 2N4399 must be measured while the X deflection current is set for 5 amps (+2.5V at $A\emptyset2-A$). No unit is to ship if the case is greater than 72°C.
- q. Same test for "X" 2N5302 for X current at -5A $(-2.5V \text{ at } A\emptyset2-A)$. Must be less than 72°C.
- r. With $A\emptyset2-A$ and $A\emptyset3-A$ adjusted to +5A (+2.5V on both) measure the case temperature on the top 2N4399 of the power supply. Must be less than 72°C.
- s. With $A\emptyset2-A$, $A\emptyset3-A$ at -2.5V measure the top 2N5302 case temperature on the power supply heat sink. Must be less than 72°C.

SHEET $\frac{16}{1}$ OF $\frac{31}{1}$

REV

digital

CONTINUATION SHEET

TITLE

BASIC ON-LINE TEST PROCEDURE

NOTE: Before applying power check that the power applied is the same as the voltage required by the VR14 under test.

A. Cabling

1. Install the BCl2 Display cable from location F38 of the EM12 to the Display under test. (For extended scope output use F39 of the EM12.)

B. Basic Set-Up

- 1. Set-Up the M711 location CD37 as follows:
 - a. Intens Negative
 - b. P.R.R. Fast
 - c. Width For cables less than 100' set to minimum, for cables over 100' set to maximum.
- 2. Check that the polarity switches located on the back of the VR14 are in the negative position (down).
- 3. Set the channel select control on the front panel to channel 1 and 2.

SIZE CODE NUMBER REV SP

SHEET $\frac{17}{}$ OF $\frac{31}{}$

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE

- C. Basic On-line Checkout
 - 1. Do not apply power to the VR14 under test at this point.
 - 2. Load in the display diagnostic D6BC.
 - a. The following switches control this test.
 - (1) Setting Sense Switch -1 cause the display to freeze on the current test.
 - (2) Resetting Sense Switches to zero will cause the display to cycle thru the patterns listed below.
 - (a) Pattern 1 Point Plotting (Box) Sense Sw ∅
 - (b) Pattern 2 Character Generation Sense Sw 1
 - (c) Pattern 3 Diagonal Lines Sense Sw 2
 - 3. Start diagnostic D6BC and freeze on Pattern 3 (Diagonal lines). LINC mode/START 20.
 - 4. Using an oscilloscope check the input to the X deflection Tp A \emptyset 2-E. This signal should be 6 volts in amplitude. From 0 to -6VDC.
 - 5. Using an oscilloscope check the input to the Y deflection Tp A \emptyset 3E. This signal should be 6 volts in amplitude. From 0 to -6VDC.
 - a. Make sure no oscillations are present at $A\emptyset 2A$ and

REV

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digital

CONTINUATION SHEET

TITLE

- 6. Depress STOP and I/O PRESET on the PDP-12 console.
- Apply power to the VR14 under test.
- 8. Using a meter perform voltage check number 17 of table 1.
- 9. Using a meter perform voltage check number 18 of table 1.
- Depress "START 20" on the PDP-12 console.
- 11. Select Sense Switch when pattern 1, a box, is displayed.
- VR14 Alignment.
 - a. Adjust the X position pot so that the left side of the box pattern aligns with the left side of plastic display mask. The display should be parallel and about 1 from the mask at its closest point.
 - b. Perform the above step for the Y position using the bottom edge of the display mask.
 - Adjust the horizontal gain so the right side of the pattern aligns with the right edge of the plastic mask, within \$\frac{1}{4}" at its closest point.

NUMBER SIZE CODE VR14-0-5

SHEET _19 _ OF _31__

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE

- d. Adjust the vertical gain in the same manner as above for the top edge of the pattern.
- On the G836 adjust the brightness preset to prevent the scope display from blooming (when front brightness control is fully CCW).
- f. Adjust the yoke for horizontal and vertical alignment by loosening the adjustment screw and turning the yoke by hand while watching the display. When aligned, the box should be parallel to the mask on all edges. Tighten the alignment screw down securely.
- Reset Sense Switchs to zero. will cause patterns to rotate when pattern 2 appears on the scope select sense switch. Pattern two will now freeze on the scope.
- h. Adjust the focus for sharp clear character display dots.
- i. Fine tune the brightness preset and focus control for a very clear display.

REV



CONTINUATION SHEET

TITLE

- j. Using character test, select channel 1 using the front channel select knob - only channel l should be displayed. Repeat for channel 2 only channel 2 should be displayed.
- Reset the front panel channel select to 1 and 2.
- 13. Stop D6BC Diagnostic
- 14. Load in DIAL
 - a. LSW = 701
 - RSW = 7300
 - c. Line Mode
 - d. I/O Preset

 - f. The tape will move then stop
 - Hit start 20
 - Program will load in
- 15. At this point there will be a number 1 displayed in the upper left corner of the display. There will also be a cursor pointing to the present line position.
- 16. Strike "E" on the TTY and repeat. This will cause a row of E's to be displayed on the VR14 under test. Continue to strike E until 3 rows of E's are displayed.

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NUMBER VR14-0-5

SHEET $_{21}$ OF $_{31}$

REV В

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE

- 17. Observe the display for acceptable limits of ripple.
- 18. Strike rub out and repeat on the TTY until the cursor returns to its original starting position.
- 19. Strike line feed on the TTY. This will cause the cursor to move to the lower left corner of the display.
- 20. Type "DX, comma, carriage return," this will cause the directory of tape unit Ø to be displayed. Check the general quality of the display for acceptable limits.
- 21. Power down the VR14 and disconnect the line cord. Wire the unit for 230VAC input.
- 22. Power up the VR14 with 230VAC and check display quality with DISPTST.
- 23. If O.K. remove line cord and rewire for 115VAC.
- 24. Hit stop and I/O PRESET on the PDP-12 console.
- 25. With a Variac set the line to each unit to 90VAC and with no signal connected and AØ2-A, AØ3-A at approximately +2.2V (standard settings for PDP-12), turn on off switch on and off rapidly (within $\frac{1}{2}$ sec) about 5 times while monitoring the voltage at $A\emptyset 2-A$. Leave power on after the fifth time. If $A\emptyset 2-A$ does not return to its original value (about 2.2V), but instead goes away negative shut down and do not ship this unit. It has power-on latch up.
- 26. All VR14/20's must be vibrated horizontally, vertically, and on its back facing up thru the range 0-60 on the vibration table while displaying DISPTST. Any breaking up or disappearing of the picture is a reject and cannot be retested unless the intermittent cause is found and fixed.
- 27. All units must be tested in a heat tent which has an ambient temperature between 45 and 55 °C. For 3 hours with $A\emptyset 2-A$, $A\emptyset 3-A$ at +2.0V (not 2.5) and then 3 hours with A \emptyset 2-A, A \emptyset 3-A adjusted to -2.0V (not 2.5). Now run DISPTST for 3 hours under heat tent. After both heat tent tests the following measurements must be made to see if any power transistors have become "leaky".

NUMBER SIZE CODE **REV** SP VR14-0-5 B

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CONTINUATION SHEET

TITLE

- Turn the position pots on X and Y deflection (A225) so that +2.5 volts is measured at A \emptyset 2-A and A \emptyset 3-A. This causes +5 amps to flow from both amplifiers and represents the worst case dissipation for the 2N4399 transistors in the power supply and deflection.
- Measure the case temperature of the 2N4399 in the X and Y and power supply. The case temperature a room ambient should never exceed 72 °C (161 °F).
- While the 2N4399's are still at full load, the 2N5302's are all unloaded and should be measured for leakage. Measure AØ2L to AØ2K, this voltage should read less than .75 volts. Measure AØ3L to AØ3K and should read less than .75 volts. This same measurement can be made at the power supply regulator board by measuring less than .75 volts between pin 11 (blue gray) and pin 12 (green) P3.
- D. Now that the 2N4399's have been run full load, the 2N5302's should be done. Turn the X and Y position pots so that -2.5 volts is measured at A02-A and AØ3-A. This loads fully all the 2N5302's.
- E. Measure the case temperatures of all 2N5302's. They should also be less than 72°C (161°F).
- F. Now measure the 2N4399's (which should all be off). Measure less than .75 volts between A02-R and $A\emptyset2-T$ and also between $A\emptyset3-R$ and $A\emptyset3-T$. On the power supply measure less than .75 volts between pin 2 (yellow gray) and pin 1 (orange) on P3.
- G. After the test return the position setting to 0, 0 in X and Y.
- H. If any of the measurements are above limits, the unit should never be shipped to anyone as it is a potential failure.

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CONTINUATION SHEET

TITLE

VI. ON-LINE TEST

- 1. Plug in the signal input cable from the PDP-12 to the VR14.
- 2. Load in display test D6CB.
- 3. Turn on power to the VR14 and PDP-12. (On/off brightness fully CW).
- 4. Set the channel select on the front of the VR14 to channel 1 and 2.
- 5. Start the display test, LINC mode, start 20.
- 6. Freeze the display on pattern 2, character display.
- 7. Check the displayed characters for acceptable quality.
- 8. Turn the brightness control on the front panel. CCW fully, (No intensity,)

В

REV

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VR14-0-5

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CONTINUATION SHEET

TITLE

- Run the display in this configuration for 48 hours.
- 11. After completion of the 48 hour run make the following checks.
 - a. Turn the front panel intensity control fully CW and check the quality of the displayed characters.
 - b. Check the VR14 transformer for excessive heat.
- 12. Hit I/O PRESET and STOP on the PDP-12 console.
- 13. Make the following voltage checks: (remove signal cable)
 - Voltage check number 12 of table 1.
 - Voltage check number 13 of table 1.
 - c. Replace signal cable

- 14. Start the display test D68C(LINC mode, START 20).
- Select Sense Switch while the display is running pattern 3.
- Check pattern 3 for the quality of the display.

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B

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ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE

- 164. Check the yoke alignment and adjust if required.
- 17. Resetting Sense Switchs to zero will cause the display test to rotate thru the patterns.
- 18. Select Sense Switch while the display is running pattern 1.
- 19. Check the quality of the display. (The box should extend to within $\frac{1}{4}$ " of the edge of the usable display area at its closest point).
- 20. Check the yoke alignment and adjust if required.
- 21. Remove input signal and zero position on X & Y (A \emptyset 2A, AØ3A = ØV).

VII. MARGINAL TEST

None Required

VIII. VIBRATION TEST

- 1. Power up the VR14 and PDP-12.
- 2. Load and start display test D6CB (LINC, mode, START 20).
- 3. Vibrate the logic in accordance with specification SP-7665057-0-0. Observe the display for no malfunctions while vibrating the logic.

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ENGINEERING SPECIFICATION	digit	31	CONTINUATION SHEE	T
TITLE				
IX. ACCELERATED LIFE TEST				
None Required				
		,		
X. RELIABILITY TEST	•			
None required		•		
None redutted				
	•			
	•			
				1
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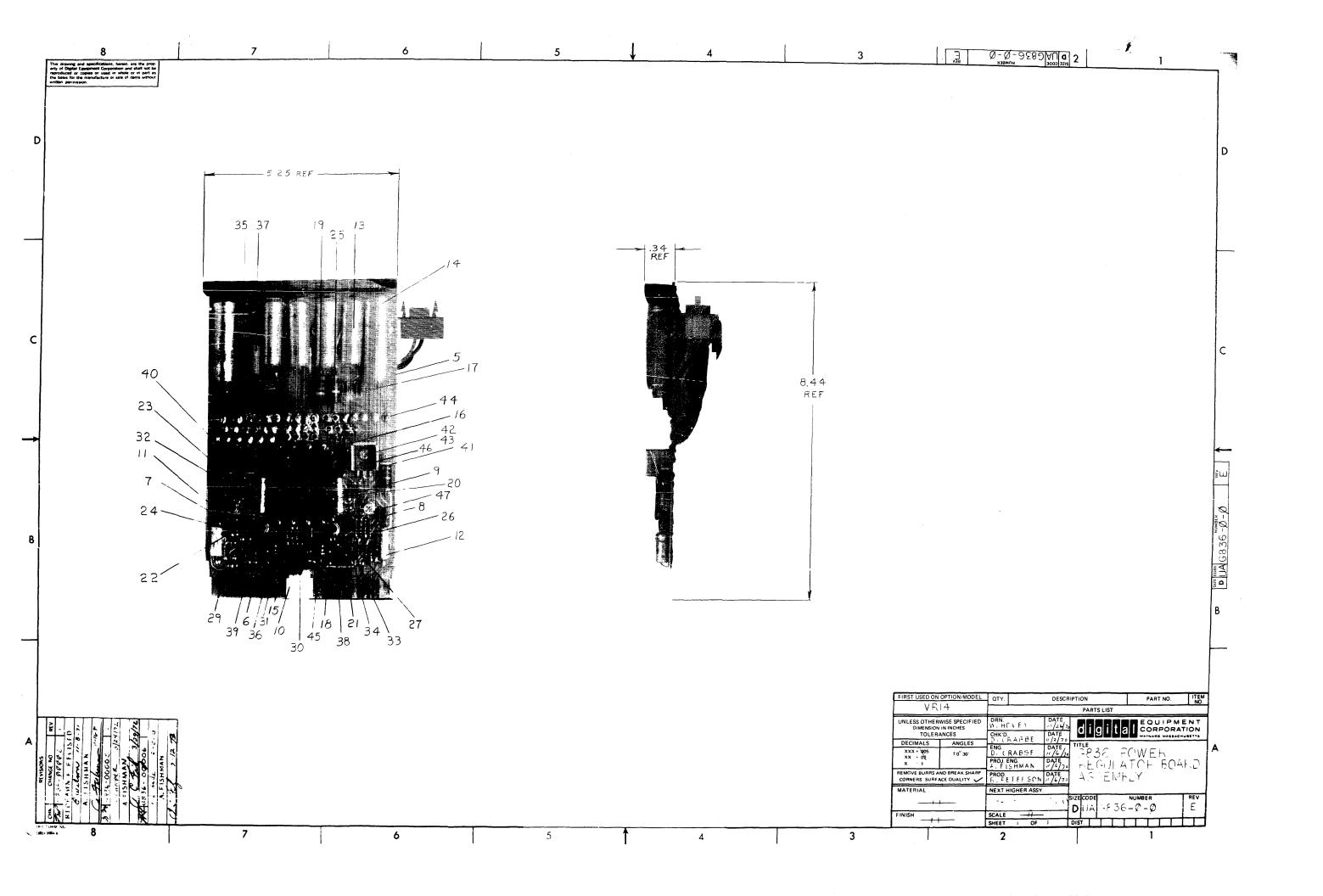
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TITLE						
		XI VR14 PRODUCT	'ION CHECKLIS	5 T		
		VR14 Serial Number				
		Phosphor				
		Power Required				
		Table Top	~ · · · · · · · · · · · · · · · · · · ·			
		Chassis Mount				
			Tech		Date	
1.	Basic Mechani IV. Al - A20					
2.	Basic Electri IV. Bl - B7	cal Check				
	Test 1	+	VDC			
	Test 2	-	VDC			
	Test 3		VAC			
	Test 4	+	VDC	,		
	Test 5	+	VDC			
	Test 6	_	VDC to		VDC	
		_	VDC to		VDC	
	Test 7	+	VDC to	_	VDC	
	Test 8		VAC			
	Test 9	+	VDC			
	Test 10		VDC to		VDC	
·			VDC to		VDC	
			SIZE COD	VR14-	IUMBER 0-5	REV

ENGINE	ERING SPECIFIC	CATION	digrita	C	CONTINUATION SH	EET
TITLE	The second secon					
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	Test 12	+	VDC			
	Test 13		VDC			
	Test 14		VDC			
	Test 15		VDC			
	Test 16	+	VDC			
	Test 17	+	VDC	to	V	DC
	Test 18	+	VDC	to	V	DC
	Bl - P	• C				
	B1 - Q	• C				
	B1 - R	• C				
	B1 - S	•c				
3. Basi	ic On Line Test					
Α.	M711 Set up					
	V. Bl	Intens				
		P.R.R.				
		Width				
В.	Input Signal					
	V. C4	VDC				
	C5	VDC				
	C5Ayes	no no	-			
	If yes do	not proceed	until	osci l l	lation has been	fixed.
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			Α	SP	VR14-05	B

ENGINEERING SPECIFICATION DESTRUCTION SHEET							
TITLE							
C. Brightness Preset							
V. Cl 2 ,i							
D. Channel Select							
V. Cl2,J Channel 1							
Channel 2							
V. Cl2,K Channel 1 and 2	2						
E. V. C25 yes no							
If yes do not ship unit.							
F. V. C26O.K.							
H. V. C27 _a - C27h							
C27b + VDC							
C27c + VDC							
. C27d + VDC							
C27fVDC							
C27g VDC							
C27h - VDC							
4. On Line Testing							
A. 48 hour reliability							
VI. 10OK							
13A VDC							
13b VDC							
SIZE COD A SP							

ENGINEERING SPECIFICATION	digita	M	CONTINUATION SHEET	
TITLE				
B. Yoke tightened DowN				
VI. 16 A OK				
5. Vidration Test				
VIII. 1 - 3OK				
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	SIZE	CODE	NUMBER	RFV
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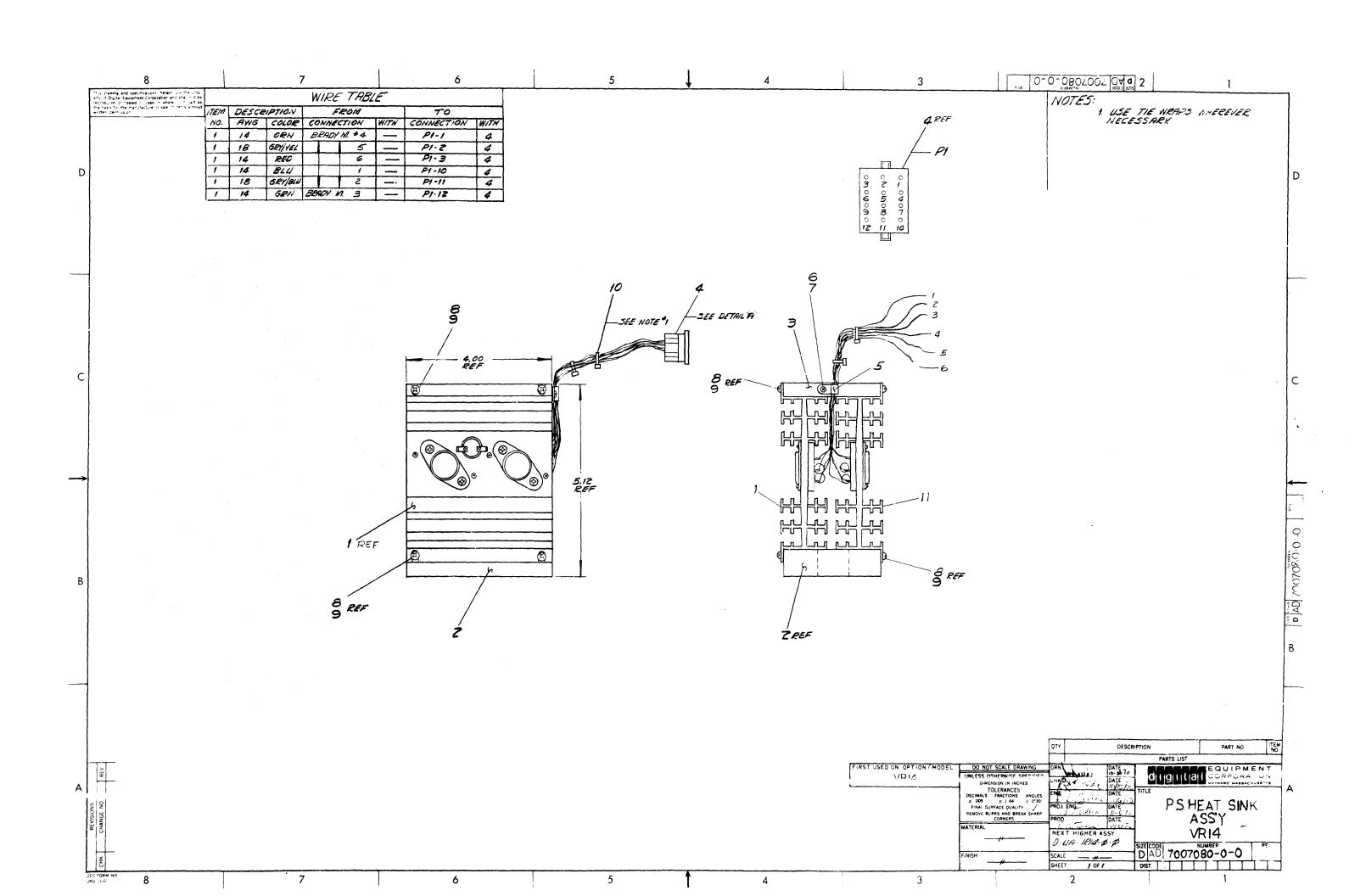
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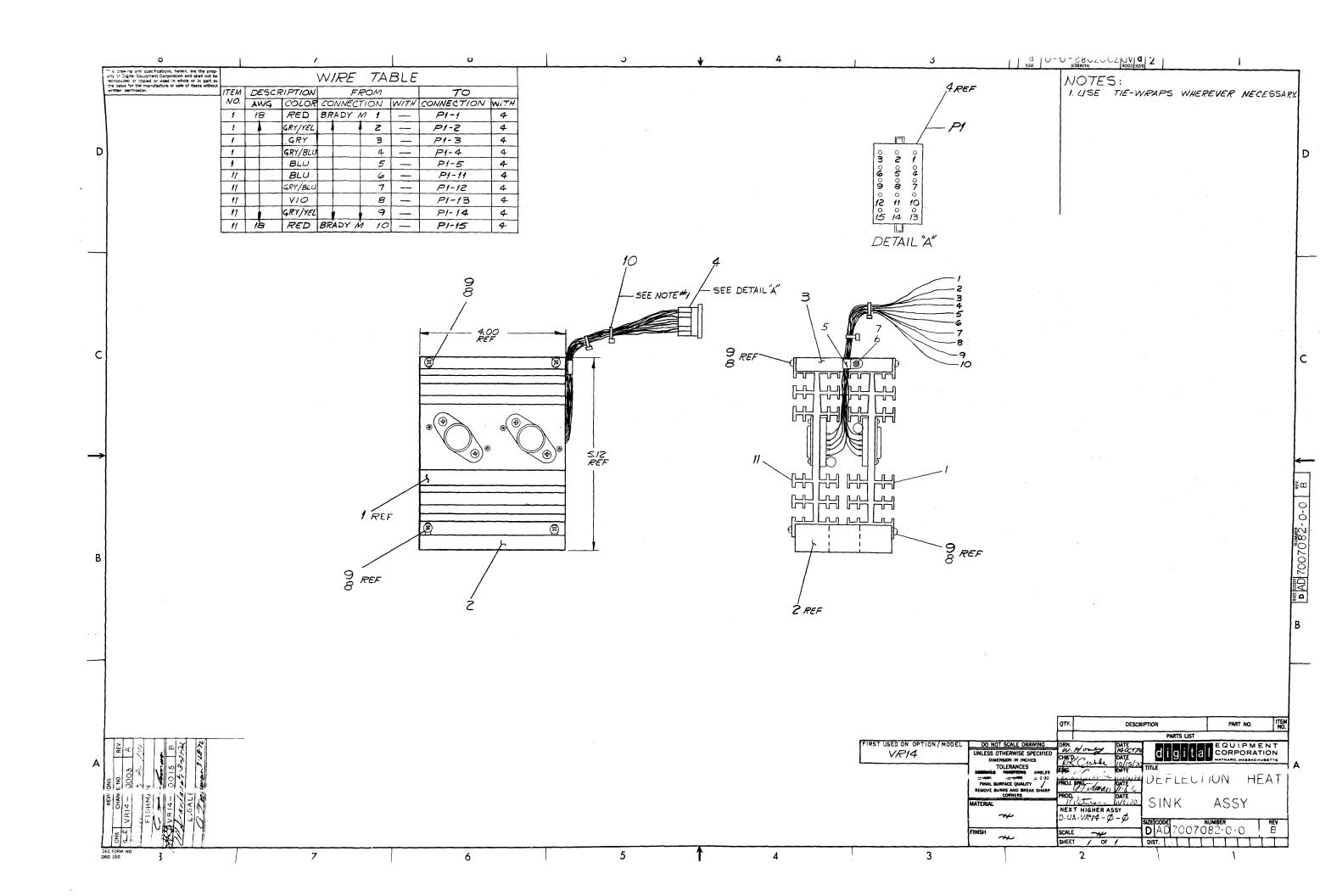
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34 1	3:4870	RES. 6.81K 1/8W 1% N	1 F		2	R3.	19	_					-	-5
35 1	3: 0179	RES. 500K 1W 10% 78	PR POT		1	R35	_	_						
	3. 0382	RES. 2.7 1W 5%			2	R1	28			_				
37 1	3(9143-14	RES. 100K 3/4W 10%	76PR POT		1	R 38	1_	<u> </u>					4_	_
38 1	5(1742	TRANSISTOR 2N290L			1	<u>Q1</u>								1
39 1	5C 1891	TRANSISTOR DEC 2219			1	Q3		_					1_	1
4C 1	51.05.56	TRANSISTOR MJE 2955			1	<u>Q2</u>		<u> </u>						1
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TTLE VR-14	POWER SUPPLY AND	REGULATOR BOARD		A	PL	G 8	ا 36 - 0	NUM)-0	BER			REV	EC C	
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	DIGITALEQ	UIPMENT CORPORA	TION			Q	UAI	NTI	TY	/ VA	RIA	Tic	N		
	ma.,,	UIPMENT CORPORA ARD, MASSACHUSETTS PARTS LIST	SECTION	4											
DATI	EBY Mery Ann Gilber July 8, 1971	DATE 2.44	.												
ENG Dati	O Frehman AC =	PROD DATE	ISSUED SECT.												
TEM NO.		DESCRIPTI	ON												
1414	9007836	EYELETS #GS4-3		41											
45	9008085	SOLDERLESS TERMINAL		8											
46	1510555	TRANSISTOR MJE 3055		1		24									
47	1909 344	I.C. MC 1709 OF AMP		2		EI	, 2								
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TIT	LE 1-14 POWER SUPPLY AND	ASSY NO. REGULATOR BOARD	SIZE A	P					BER 0-0			1	EV. E	000	
L		SHEET		ST.	力				\prod	I		工			
	FORM NO.16-1031	· •													

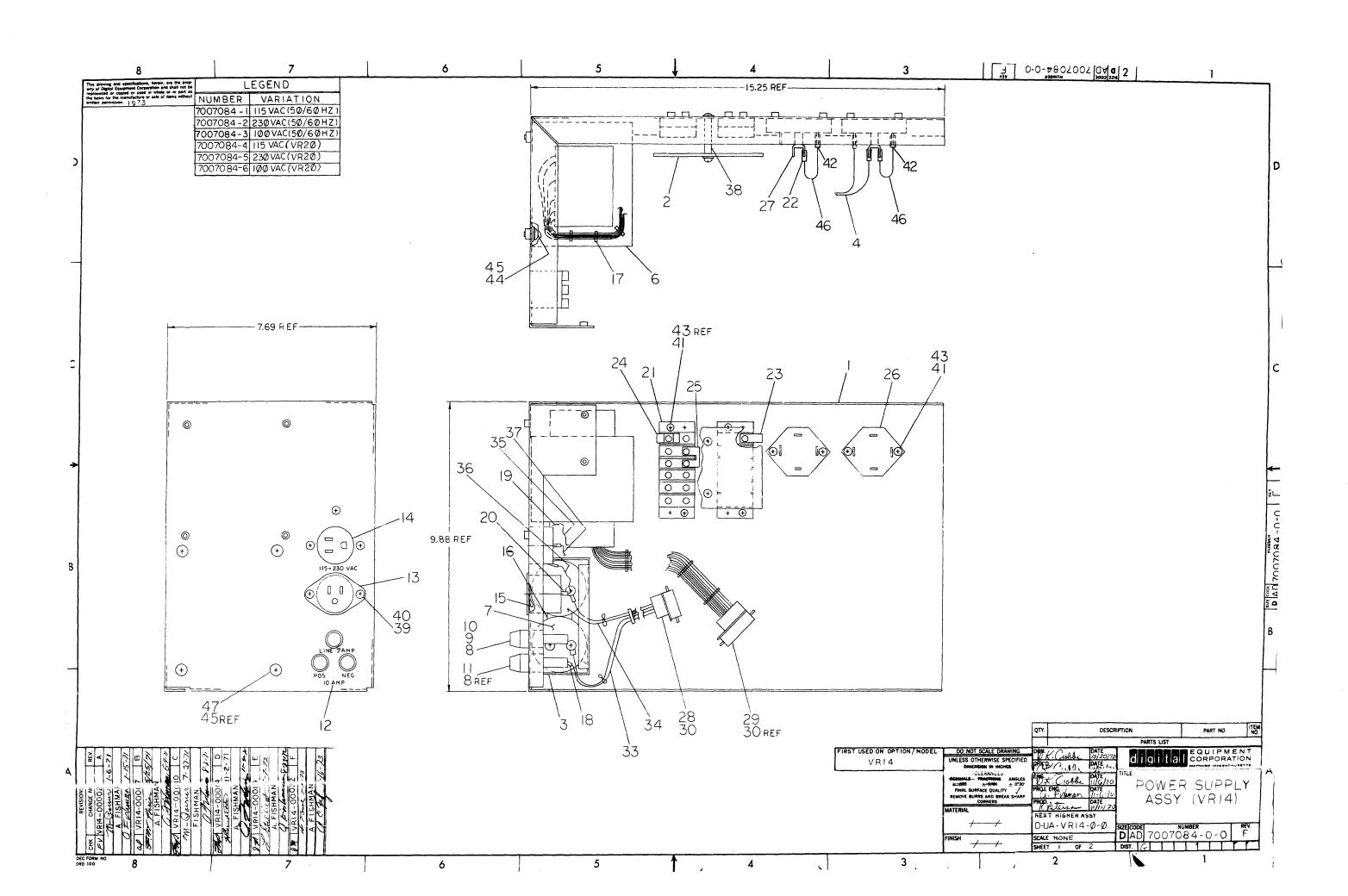


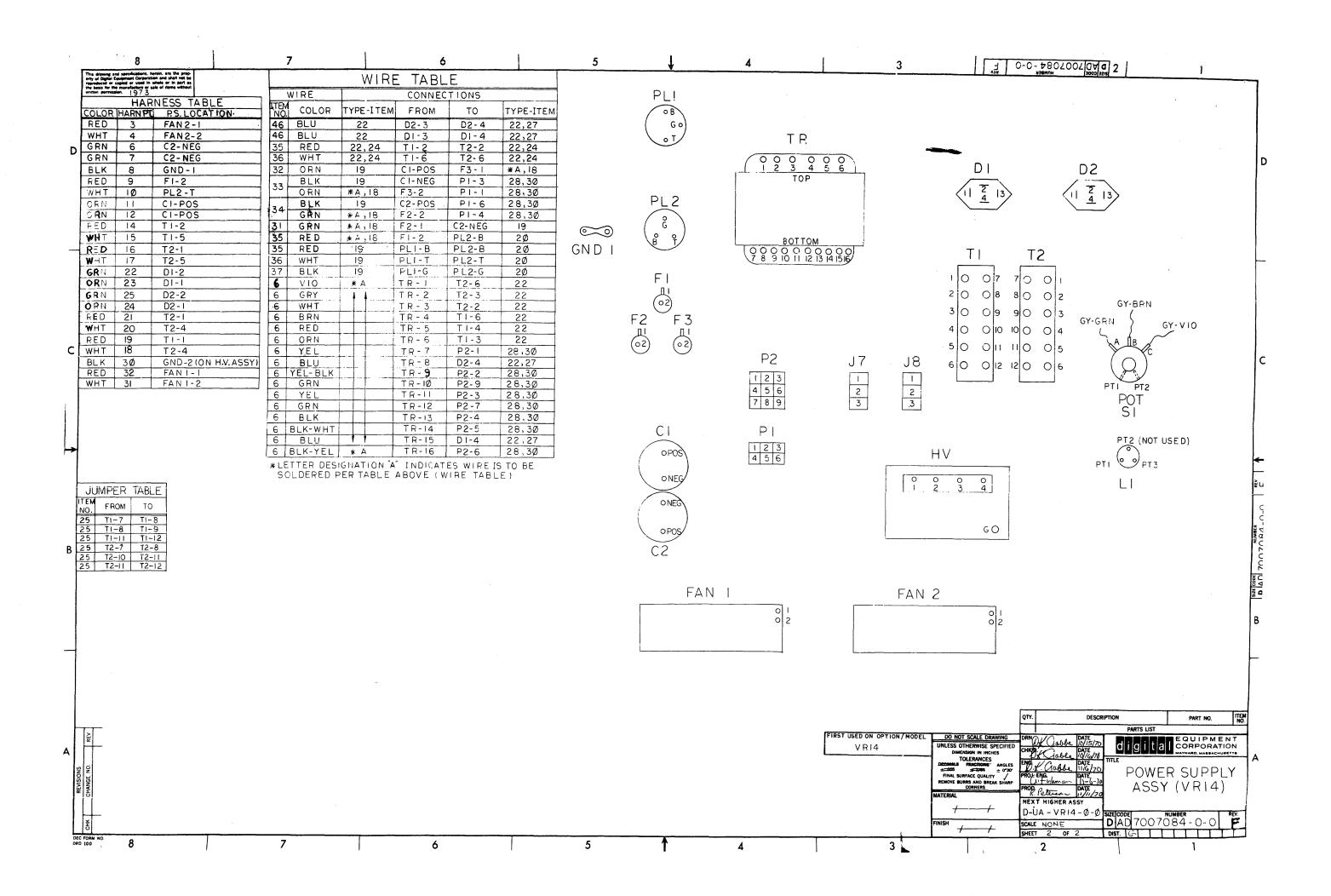
	DIGITAL EQ	UIPMENT C	ORPORAT	TION			(AUS	NTI	TY	/VA	RIA	ATIO	ON		
MAD		PARTS LIST	5T	SECTION												
DATI	EBY J. Devin	i i	/15/70	1												
ENG		PROD R. Pet		ISSUED SE	CT.											
DATI		DATE 11/6/		1				1								
ITEM NO.		•	DESCRIPTION	N											-	
1	D-AD-7007081-1-0	REGULATOR HEA	AT SINK ASSY	•		1										
2	C-MD-7408437-0-0	BRKT, MTG. SI	PACER	·····		1										
3	C-MD-7408438-0-0	SPACER, MTG.				1			<u> </u>							
4	1209351-12	SOCKET HOUSI	NG MATE-N-LO	K		1										
5	CPS-1953-4A	CLAMP NYLON !	4 I.D.			1										
6	9006021-1	SCR, PHL HD	PAN #6-32 x	5/16 LG		1										
7	9006656	WASHER, FLAT	#6 SST			1										
8	9006020-1	SCR, PHL HD	PAN #6-32 x 1	4 LG SST		8										
9	9006633	WASHER, INTE	RNAL #6-32 S	ST		8										
10	9007031	TIE WRAPS SS	r-1B			2										
11	D-AD-7007081- <i>2</i> -O	REGULATOR HEA	AT SINK ASSY.	,		1										
-																
TITI	.E P.S. HEAT SINK AS	SSY.	ASSY NO. D-AD-70070	080-0-0	SIZE	PL	7	0070	80 -				R	EV.	ECO	NO
			SHEET 1	OF 1	DIST							$oldsymbol{\mathbb{T}}$	I	$\Box T'$		



	DIGITALEQ	UIPMENT CORPOI	RATION				UANT			N	
	MAYN	PARTS LIST									
MAD	EBY W. Hovey	CHECKED D.K. Crab CODATE Oct. 15, 1970	SECTION 1						,		
ENG DATI	O.K. Crabbe	PROD K. Returner. DATE 11/6/20	ISSUED SE	CT.							
ITEM NO.	DWG NO. / PART NO.	DESCRI									·
1	D-AD-7007083-1-0	DEFLECTION POWER AMP	. ASSY.		1						
2	C-MD-7408437-0-0	BRKT, MTG. SPACER			1						
3	C-MD-7408438-0-0	SPACER, MTG			1						
4	1209351-15	SOCKET HOUSING MATE-1	N-LOK		1						
5	CPS-1953-4A	CLAMP NYLON 4 I.D.	U		1						
6	9006021-1	SCR PHL HD PAN #6-32	x 5/16 LG		1						
7	9006656	WASHER, FLAT #6 SST			1						
8	9006020-1	SCR, PHL HD PAN #6-32	2 x 1/4 LG SST		ε						
9	9006633	WASHER, INTERNAL #6-3	32 SST		8						
7.0	9007031	TIE·WRAPS SST-1B			^ / R						
11	D-AD-7007083-2-0	DEFLECTION POWER AMP	. ASSY.		1						
-12	1209351=03=		Control of the Party of the Par		I						
								1 1			
TITL	E DEFLECTION HEAT	SINK ASSY. ASSY NO). -7007082-0-0	SIZE	ODE	700	NUM 7032-	1 BER 0-0	RE	V. ECC	NO.
		SHEET	1 OF 1	DIST.					-' -		

DEC FORM NO.16-1031 DRA 110





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	MAYN	PARTS LIST												
	EBY D. Crabbe	CHECKED D. Crabbe	ECTION	1	2	က္	4	75	9-	l	1			
DAT		PROD R. feters	SSUED SECT.	84-	34-	34	84-	84-						ļ
DAT		DATE 11/11/20	1	0708	007084-2	007084-3	007084	7007084-	007084]	
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		70(70(70(70(70	70					
1	E-IA-7408402-0-0	PLATE, SIDE MTG.		1	1	1	1	1	1					
2	B-MD-7408416-0-0	COVER, PROTECTION		1	1	1	-	-						
3	D-IA-7108433-0-0	COVER, CAPACITOR HOLDDOWN		1	1	1	1	1	1					
4	E-IA-7 007 14 7- 0-0	POWER SUPPLY CABLE HARNESS		1	1	1	1	1	1					
5	D-SC-7)07084-0-1	POWER SUPPLY CIRCUIT SCHEM	ATIC	REF	REF	REI	REF	REF	REF					
6	161016)-0	TRANSFORMER MMC-3833-1 MER	RIMACK	1	1	1	1	1	1					
7	101014 }-0	CAPACITOR, 5900 MFD 75V SP	RAGUE	2	2	2	2	2	2					
8	900724	FUSE HOLDER #HKP		3	3	3	3	3	3					
9	9007224	7 AMP SLO BLO FUSE (115V)		1	_	1	1	-	1					
10	9007218	3 AMP SLO BLO FUSE (230V)		_	1	-	_]	1	-					
11	9008838	10 AMP FAST BLO FUSE (230V)	2	2	2	2	2	2					
12	A-DC-7408407-0-0	SCOTCHCALS (VR14)		A/R	A/R	A/F	A/RA	1/R	A/R					
13	1201257	RECEP #160-5 MALE AMPH.		1	1	1	1	1	1					
14	120125	RECEP #160-4 FEM AMPH.		1	1	1	1	1	1			T		
15	9006760	TERMINAL #2101-06-00 SHAKE	PROOF	1	1	1	1	1	1					
16		FOAM ½ x 3/4 STICKY BACK 3	<u></u> И	A/R	1/R/	A/R	A/R/	A/R	A/R					
17	9007031	TIE WRAP SST-1-B					A/R/							
18	910730!	SHRINKIES					A/RA							
19	900677€	SOLDERLESS CONN #31889 (REI	O) AMP		7	7		7	7					1
20	9006780	SOLDERLESS CONN #34144 (REI	O) AMP	4	4	4	4	4	4					1
21	9006904	TERM STRIP #6-541 CINCH JOI	NES	2	2	2	2	2	2					
22	9007917	FASTON TAB #50902 AMP		I)		12	12]	12	12					
TITL	E POWER SUPPLY ASS		1-0-0 SIZE A	PL		700	N 7084	U M B				RE -	V. EC VF OC	0 NO

	DIGITAL EQ	UIPMENT CORPORATION ARD, MASSACHUSETTS	N	_		Q	UAI	NTI	TY	/ VAF	IAT	ION		
		PARTS LIST										T	T	Τ
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EM O.	DWG NO. / PART NO.	DESCRIPTION		700	700	700	.002	.002	700					
23	9007112	FASTON TAB #60145-1 AMP		1	1	7	,	7	-	-	+-	+	-	╄
24	9007269	FASTON TAB # 41287-1 AMP		12	1 12	12	1 12	1	1		+-	╁┈	├	╀
25	9007131	JUMPERS #541 CINCH JONES		6		6	6				+-	+	-	╀
26	1.10579	DIODE PACK DM15 SOLARTRON		2	2	2	2	6 2	6 2	-	+-	+-	┼	╀
27	9007925	PIGGYBACK FASTONS #3000H21F	ARKLESS	2	2	2	2	2	2	-+	+-	+	┼	╀
28	1209351-06	SOCKET HSG (MALE) #1480273-				1	1	-		+	+-	+-	-	Ͱ
29	120935 L - 09	SOCKET HSG (MALE) #1480274-			1	1	1	╗	1		+-	+	-	├
30	1209378-01	CONTACT PIN (MALE) MATE-N-I		1		 -	12	1	12	\dashv	+-	+-	-	├
31	9107370-55	#14GA TEF STRD INS WIRE (GF					12 A/F				+	┼	-	├
32	9107 3 70 – 3 3	#14GA TEF STRD INS WIRE (OR			ψ •				A/ R	+	+	+	-	\vdash
33	9107 44 0 – 0 3	#14GA TEF STRD INS TWP (BLK			#		+	1		-	+-	+-		├
34	910744()=05	11 7 4	(-GRN)				++	+		-	+-	╁─		┝
35	9107360-22	#18GA TEF STRD INS WIRE (RE		H	+	+	++	+	+	_	+	+		┝
36	9107360-99	#18GA TEF STRD INS WIRE (WH		1	$\downarrow \downarrow$	\bigvee	1	#	4		+-	+-	 	├
37	9107360-00	#18GA TEF STRD INS WIRE (BL		A/R	A/R	A /B	7 / 5	7 / 1	7 / 7	_	+	+-	-	├
38	9006 8 64	SPACER, AL. #6-32 TAP 1/4 AF		2	2	2		-	A/ A		+	╁		┢
39	9006 5 60	NUT, KEPS #6-32		4	4	4	4	4	4		+	+		┢
10	9006021-1	SCR PHL PAN HD #6-32 x 5/3	16 ccm	8	8	8	4	4	4	-	+-			┢
1	9006025-1	SCR PHL PAN HD #6-32 x 5/8		4	4	4	4	4	4		+	+-	-	┝
2	9007919	FASTON TAP AMP			2	2	2	2	2	+	+	+-		\vdash
3	9006633	LOCK WASHER #6 INT TOOTH			12		8	8	8	_	+	+	-	\vdash
14	9006070-1	SCR, PHL PAN HD #10-32 x 5	/16 SST	8	8	8	8	8	\neg		+	+		\vdash
TL	POWER SUPPLY A	ASSY NO. D-AD-700708	84-0-0 SIZE					UMB	ER		1	REV.	ECO	N
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MAD DATE ENG DATI	O. C. Clabbe	CHECKED D.	Crabbe /22/70 /	SECTION 1 ISSUED SEC	Т.	007084-1	7007084-2	7007084-3	7007084-4	7007084-5	7007084-6						
ITEM NO.	DWG NO. / PART NO.		DESCRIPTIO	N		70(70(70(207	700	700						
45	9006635	LOCK WASHER #	10 INT TOOT	Н		12	12	12	12	12	12						
46	9107370-66	# 14 AWG TEF				X	#/F	A/H	A/R	A/R	A/R				_		
47	9007019-3	SCR, PHL TRUSS	S HD #10-32 X	5/16SST		4	4	4	4	4	4		\dashv			\dashv	\dashv
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	POWER SUPPLY AS	SY (VR14)	D-AD-7	007084-0-0)[7			-0-0)			Fil		
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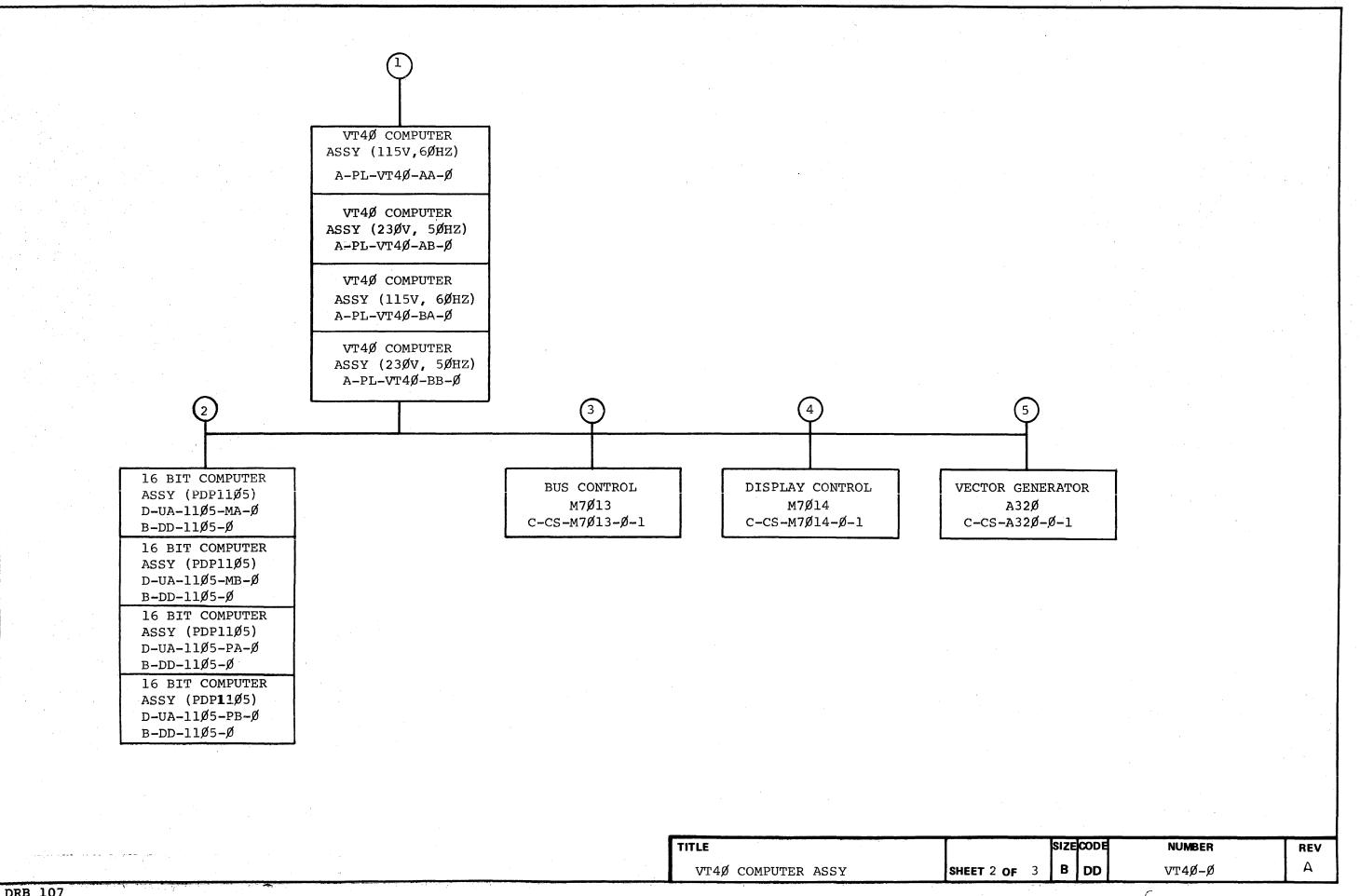
DEC FORM NO.16-1031 DRA 110

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	3	•	_	•	لئيا	MAYNARD MASSACHUSETTS

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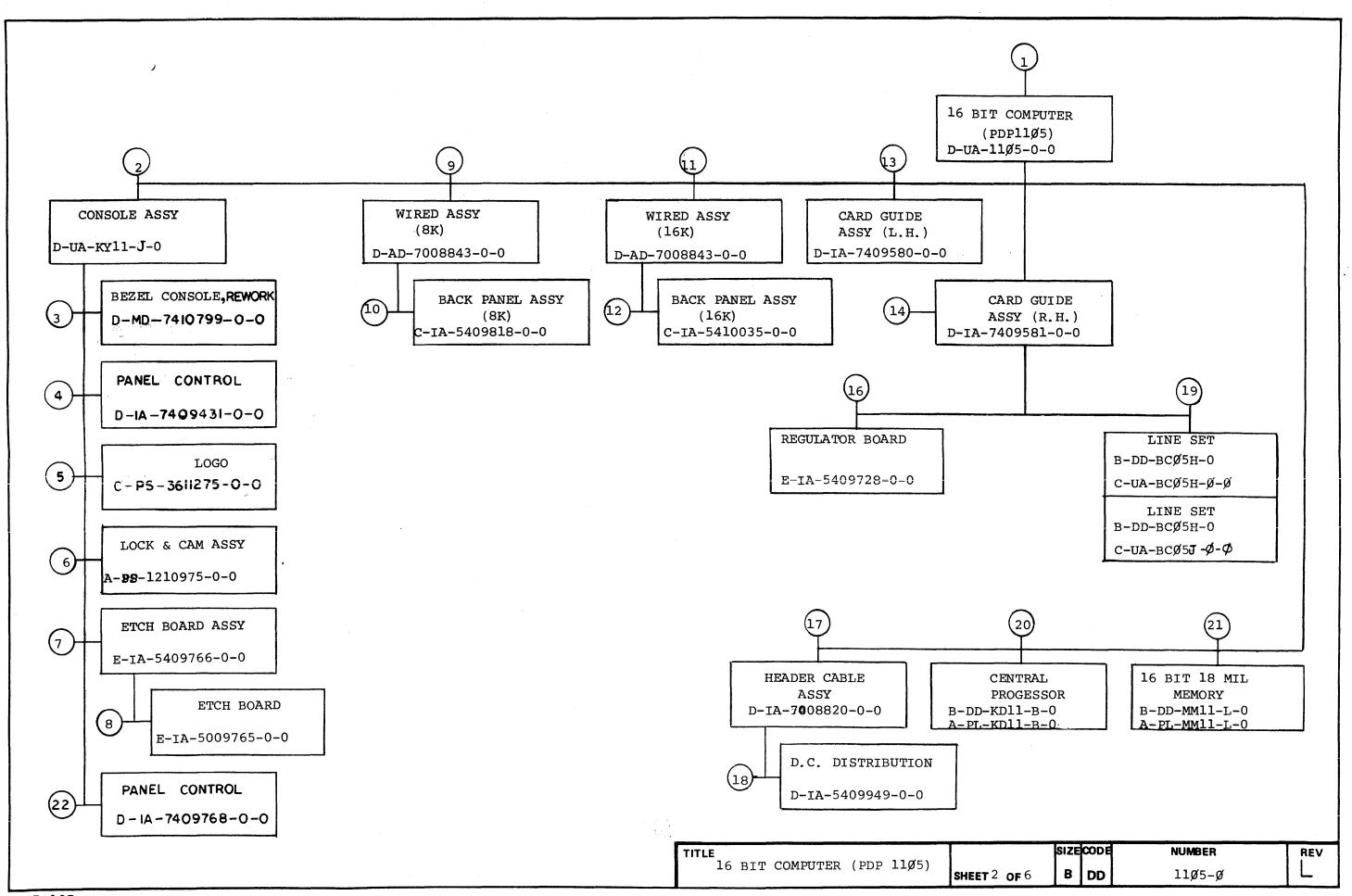
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	SPLAY CONTROL	C-CS-M7Ø14-Ø-1			,	VT4Ø-AA	VT4Ø C	OMPUTER ASS	Y (115V,60HZ)	х	\dashv
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	+	1	D-MU-VT4Ø-Ø-1		1	MODULE UTILIZATION		×	+-+	+]	A-PL-VT4Ø-Ø-Ø		1	-	VT4Ø COMPUTER ASSY	
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SEQUENCE	¬ r	UENCE		UNIT VARIATIONS	PRIN	T SET TYPE
16 BIT COMPUTER (PDP 11Ø5) B-DD-11Ø5-Ø 16 BIT COMPUTER (PDP 11Ø5) D-UA-11Ø5-Ø-Ø			VARIATION	TITLE	11/65	
16 BIT COMPUTER (PDP 11Ø5)(PL) C-PL-11Ø5-Ø-Ø MODULE UTILIZATION (16K) D-MU-11Ø5-Ø-Ø2 MODULE UTILIZATION (8K) D-MU-11Ø5-Ø-Ø1				CONFIGURATION #1		
CENTRAL PROCESSOR B-DD-KD11-B 16 BIT 18 MIL MEMORY B-DD-MM11-L	•		11Ø5-HA 11Ø5-HB 11Ø5-JA	KD11-B, MM11-K, 115V/60HZ KD11-B, MM11-K, 320V/50HZ KD11-B, MM11-L, 115V/60HZ	X	
CIRCUIT SCHEMATIC . D_CS_5409766_0=	•		11Ø5-JB	KD11-B, MM11-L, 230V/50HZ	. X	
REGULATOR BOARD E_1A_5409728_0_0 CIRCUIT SCHEMATIC D_CS_5409728_0_1			11Ø5-KA	CONFIGURATION #2 KD11-B, MM11-K, 115V/60HZ	· x	
LINE SET BCØ5H B_DD_BCØ5H_0 INPUT HARNESS (A.C.) E_1A_7008713_0_0 HARNESS (D.C.) D_1A_7008856_0_0			11Ø5-KB 11Ø5-LA 11Ø5-LB	KD11_B, MM11_K, 230V/50HZ KD11_B, MM11_L, 115V/60HZ KD11_B, MM11_L, 230V/50HZ	X X X	
HEADER CABLE ASSY .D-1A-7008820-0-0 CIRCUIT SCHEMATIC .C-CS-5409949-0-1				CONFIGURATION #3		
CONSOLE ASSY D_UA_KY11_J_O CONSOLE ASSY (PL) A_PL_KY11_J_O I/O CABLE C_UA_BC\$\(\ell 8\)R_\(\theta 3\)-\(\ell 6\)		- 3 · 9	11Ø5_MA	KD11_B, MM11_K, 115 V/6Ø HZ	X	
CIRCUIT SCHEMATIC (8K) C_CS_5409818-Ø-1 ETCH/WIRE LIST (8K) K_WL_7008843-1-1 CIRCUIT SCHEMATIC (16K) C_CS_5410035-Ø-1		.	11.05_MB 11.05_PA 11.05_PB	KD11-B, MM11-K,23ØV/5ØH7 KD11-B,MM11-L,115V/6ØHZ KD11-B, MM11-L.23ØV/5ØHZ	X. X. X	
ETCH/WIRE LIST (16K) K-WL-7008843-2-1 11Ø5 ACCESSORY LIST A-AL-11Ø5-Ø-Ø4 11Ø5 SOFTWARE LIST A-SL-11Ø5-Ø-Ø5						
11/05 ACCEPTANCE PROCEDURE A-SP-1105-0-6						
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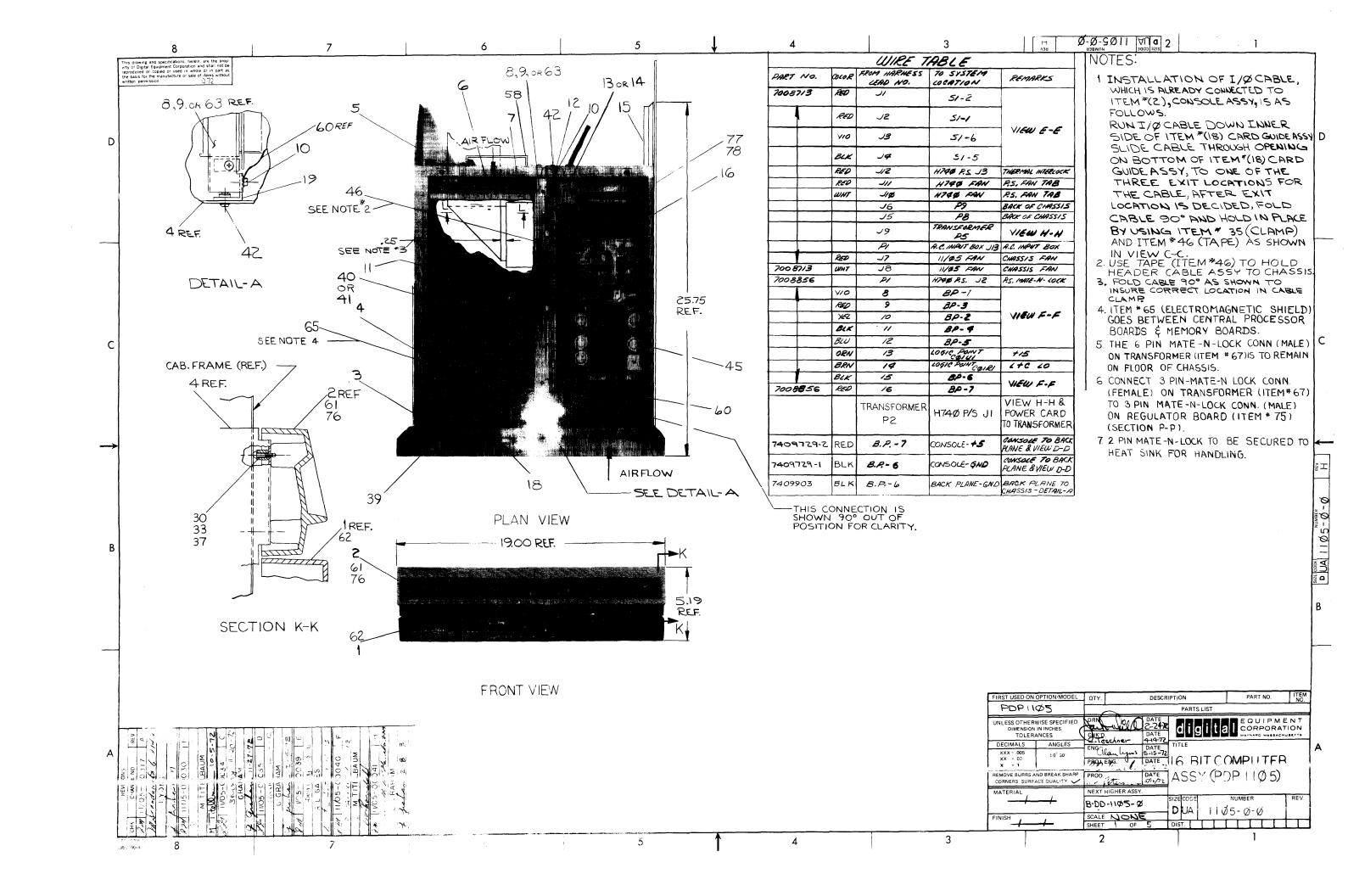


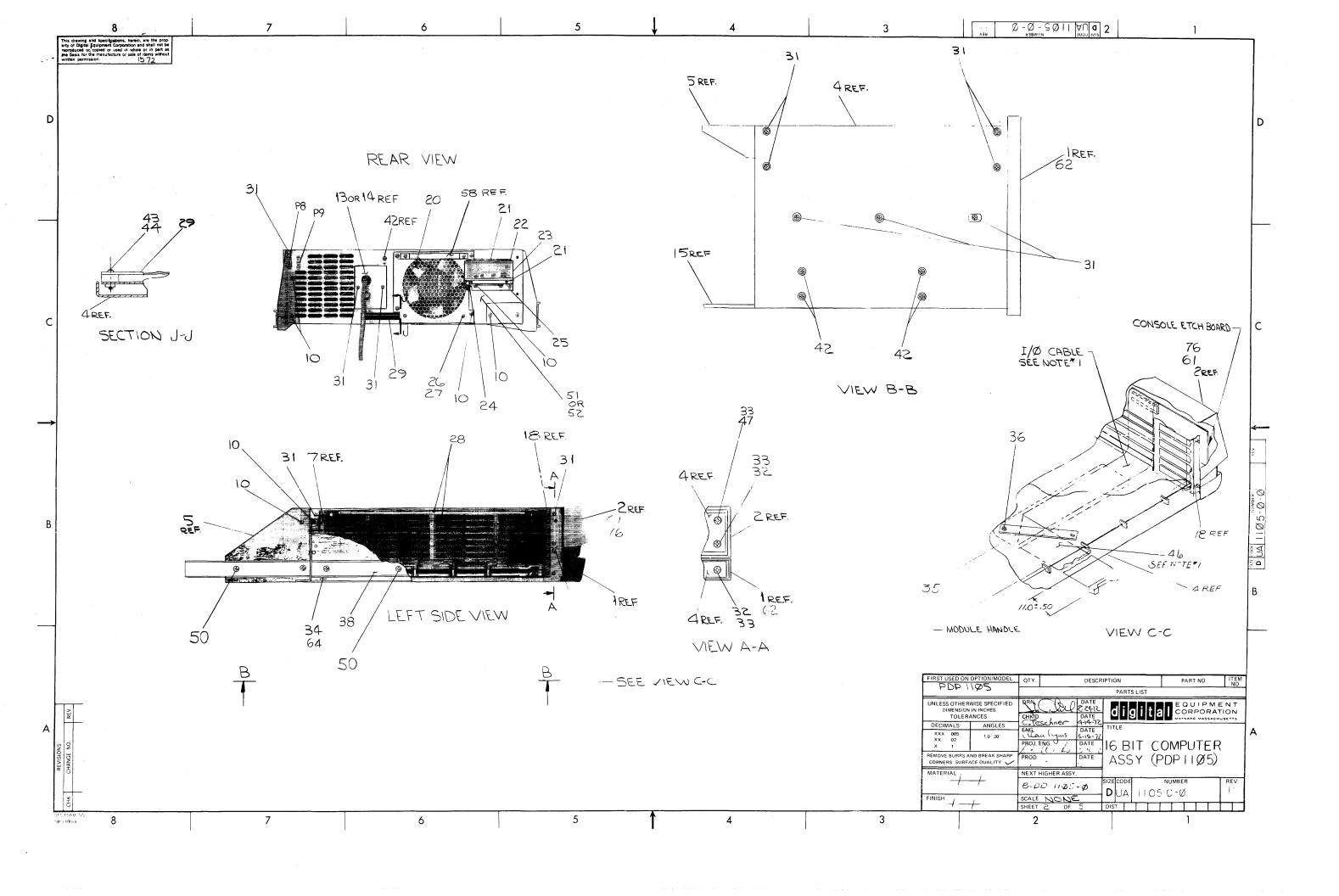
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X	44	\bot	-			E-1A-7008856-Ø-Ø	#	1	HARNESS (D.C.)	 	X			$\perp \downarrow$	-	-	-	D-GS-5409728-0-1	#	1	CIRCUIT SCHEMATIC
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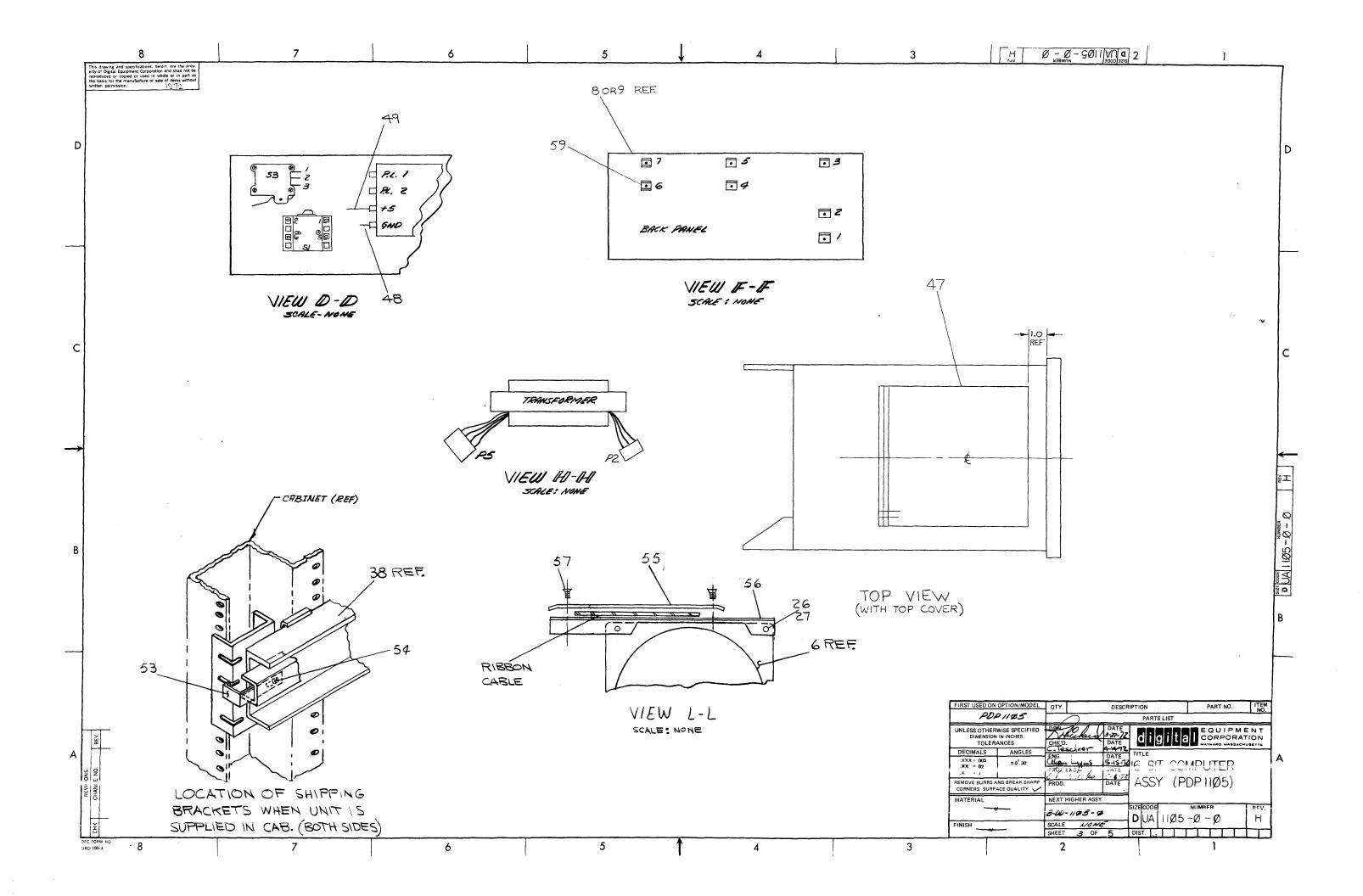
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X			1	D-UA-11Ø5-Ø-Ø		5	16 BIT (PDP 11Ø5) ASSY										
X	$\perp \perp$			C-PL-11Ø5-Ø-Ø	F	2	16 BIT (PDP 1105) ASSY (P.L.)					4	D-IA-7409431-0-0	#	1	PANEL CONTROL	
				E-IA-7409458-0-0	#	4	CHASSIS						C-SS-7409431-0-1	#	1	SILK SCREEN (MAGENTA)	
				D-IA-7409453-0-0	#	1	FAN MOUNTING PLATE						C-SS-7409431-0-2	#	1	SILK SCREEN (BLACK) REAR	
			<u> </u>	A-DC-5309413-0-0	#	1	SPECIAL DECAL (UL)						C-SS-7409431-0-3	#	1	SILK SCREEN (110/5) VERMILLON	
				D-PS-1210974-0-0	#	1	1.75 FILLER STRIP				<u> </u>	5	C-PS-3611275-0-0	#	1	L060	
		$oldsymbol{\perp}$		C-IA-7409476-0-0	#	1	RET CONN BLOCK (L.H.)						A-SS-361 1275-0-1	#	1	SILK SCREEN	
				C-IA-7409551-0-0	#	1	RET CONN BLOCK (R.H.)						A-SS-3611275-0-2	#	1	SILK SCREEN	
				D-IA 7409459-0-0	#	1	BRKT CHASSIS SLIDE (L.H.)						A-\$\$-3611275-0-3	#_	1	SILK SCREEN	
		\perp		D-IA-7409533-0-0	#	1	COVER, SIDE						A-SS-3611275-0-4	#	- 1	SILK SCREEN	
			<u> </u>	C-MD-7409460-0-0	#	1	COVER, TOP						A-SS-3611275-0-5	#	1	SILK SCREEN	
			<u> </u>	C-IA-7409449-0-0	#	1	BRKT CHASSIS SLIDE (R.H.)				<u> </u>	6	A-P\$-1210975-0-0	#	1	LOCK & CAM ASSY	
				C-MD-7409591-0-0	#	1	CLAMP			1					<u> </u>		
				C-PS-1210698-0-0	#	1	GUIDE, CARD CENTER			11		7	E-IA-5409766-0-0	#_	1	ETCH BOARD ASSY (1105 CONSOLE)	
				D-PS-1210931-0-0	#	1	BLOCK, CABLE RETAINER						K-CO-5409766-0-4	#	1	X-Y CO-ORDINATION HOLE LOCATION	Ŋ.
				D-MD77409432-0-0	#		PTATE, LOWER RETAINER										
	\bot			C-MD-7409430-0-0	#	1	NUT, SWIVEL				<u> </u>		D-MD-7409270-2-0	#	1_1_	BRACKET, SWITCHES	·
			<u> </u>	C-MD-7409479-0-0	#	1	PLATE, PRESSURE			44	1_		D-PS-1210786-0-0	#	1	KNOB	
				D-IA-7008856-0-0	#	1	HARNESS DC				_				<u> </u>		
				E-IA-7008713-0-0	#	1	AC INPUT HARNESS			$\perp \perp$			D-SC-1210795-0-0	#_	1	L.E.D. HOLDER	
			<u> </u>	A-AL-11Ø5-Ø-Ø4	#		11Ø5 ACCESSORY LIST			$\downarrow \downarrow \downarrow$			D-PS-1210848		1	SINGLE L.E.D. HOLDER	
		\bot	<u> </u>	A-SL-11Ø5-Ø-Ø5	#		11Ø5 SOFTWARE LIST				1_				<u> </u>		
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			L	B-MD-7409817-0-0	#		PLATE, CABLE CLAMP			$\bot \bot$	1				<u> </u>		
			<u> </u>	B-MD-7409816-0-0	#		SHIPPING BRACKET			4.4	_	-					
			<u> </u>	C-MD-7409818-0-0		1	BRACKET, CABLE CLAMP				—	9	D-AD-7008843-0-0	#	1	WIRED ASSY (8K)	
	$\perp \downarrow \downarrow$		<u> </u>	B-IA-7409729-0-0		1	JUMPER, POWER				$oxdapsymbol{oldsymbol{\perp}}$	-	D-MD-5010051-0-0	\#	1	SHEET, PROTECTION	-
			<u> </u>	D-PS-1210945-0-0		4	SLIDES		-		1	\vdash			 		
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			 	D-IA-7409533-1-0	_ <u></u> #_		COVER, SIDE			+	╁┈	10	C-IA-5409818-0-0	#	 1	BACK PANEL ASSY (8K)	
			<u> </u>	E-IA-5309816-0-0	_ <u>_</u> #_		CHASSSIS POWER SUPPLY		<u> </u>	4	 		D-AH-5409818-0-5	#_	1	ASSY/DRILLING HOLE	
	\perp		<u> </u>	D-IA-7008726-0-0	#		TRANSFORMER ASSY				╁┈		K-C0-5409818-0-4	 #_	1	X-Y CO-ORDINATE HOLE LOCATION	
		4	 	A-DC-5309414-0-0	 #		SPECIAL DECAL (UL)			+-	+		C-MD-7409473-0-0	#-	1-1-	BRKT, CONN BLOCK BOTTOM	1
X			2	D-UA-KYll-J-Ø	#		CONSOLE ASSY				╁—	-	C-MD-7409475-0-0	#	1	BAR, RIGHT SUPPORT	
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	44		 	C-MD-7409534-0-0	#	T	ACTUATOR (REWORK)			+	╁┈		E-PS-1210258-0-0	#_	1	288 PIN CONN (H863)	1
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			 	B-IA-7409730-0-0		1	JUMPER, POWER				+-	├ ─┼	C-MD-7409472-0-0	#-	+-1-	MOUNTING BAR	++
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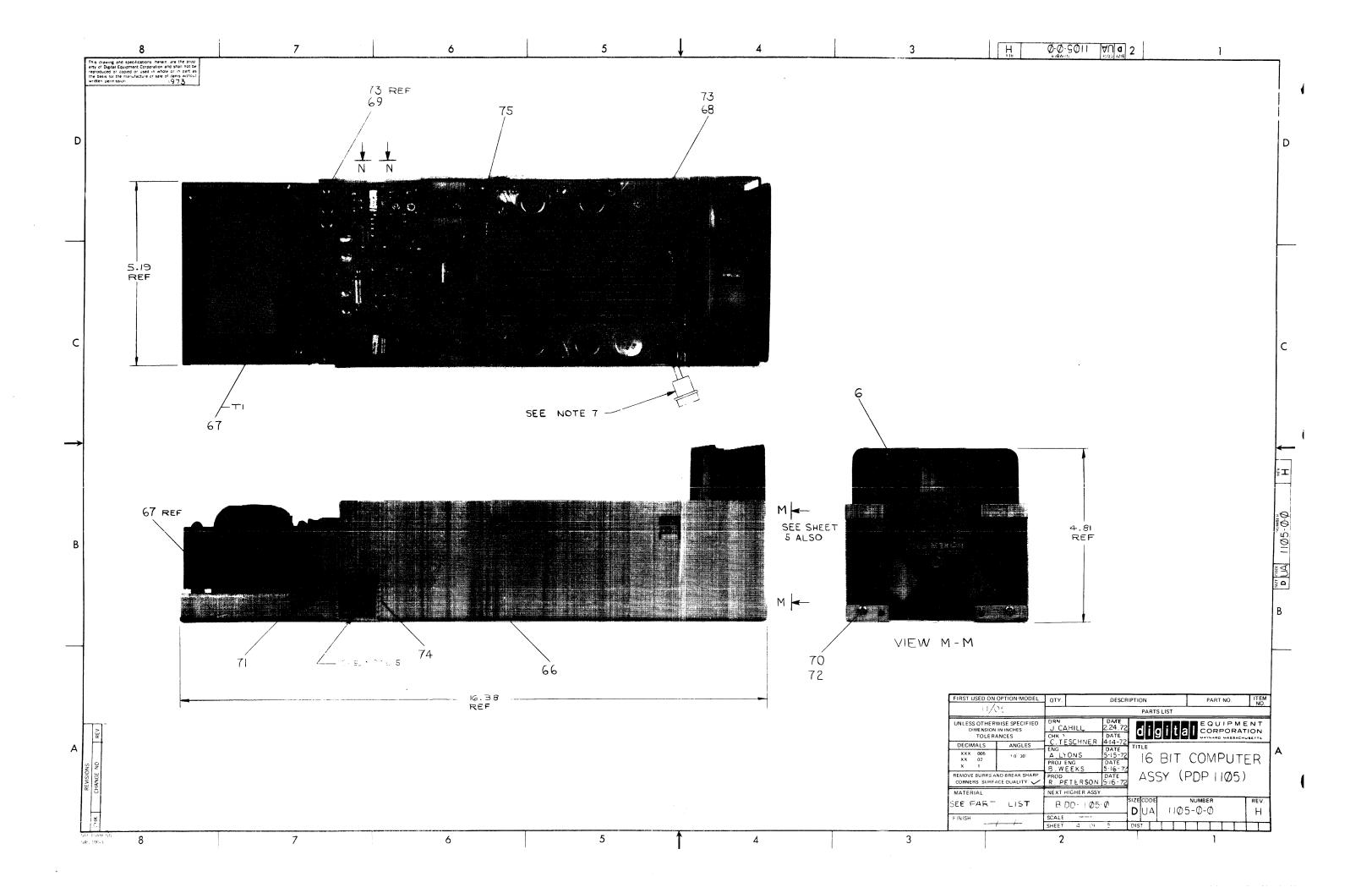
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	11			 _ -	12.	C-1A-5410035-0-0	#		BACK PANEL ASSY (16K)		!		$\bot \bot$			\sqcup		C-MD-5309942-0-0	#	1	SCR HOLDER
	\bot		_ _			C_MD_7409473_0_0	#		BRKT CONN BLOCK BOTTOM			4	1	_ _				D-PS-1210596-0-0	#	1	HEAT SINK
-	+			-	┝─┤	C_MD_7409475_0_0	#		BAR, RIGHT SUPPORT		!	┥—	1		1	\vdash		· · · · · · · · · · · · · · · · · · ·	 		
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				-		D_MD_7409553_0_0	#	1-	CARD GUIDE (REWORK)		_	╃	++	_ _	-	\square		C-UA-BCØ5J-Ø-Ø	#	1_	LINE SET BCØ5J (230)
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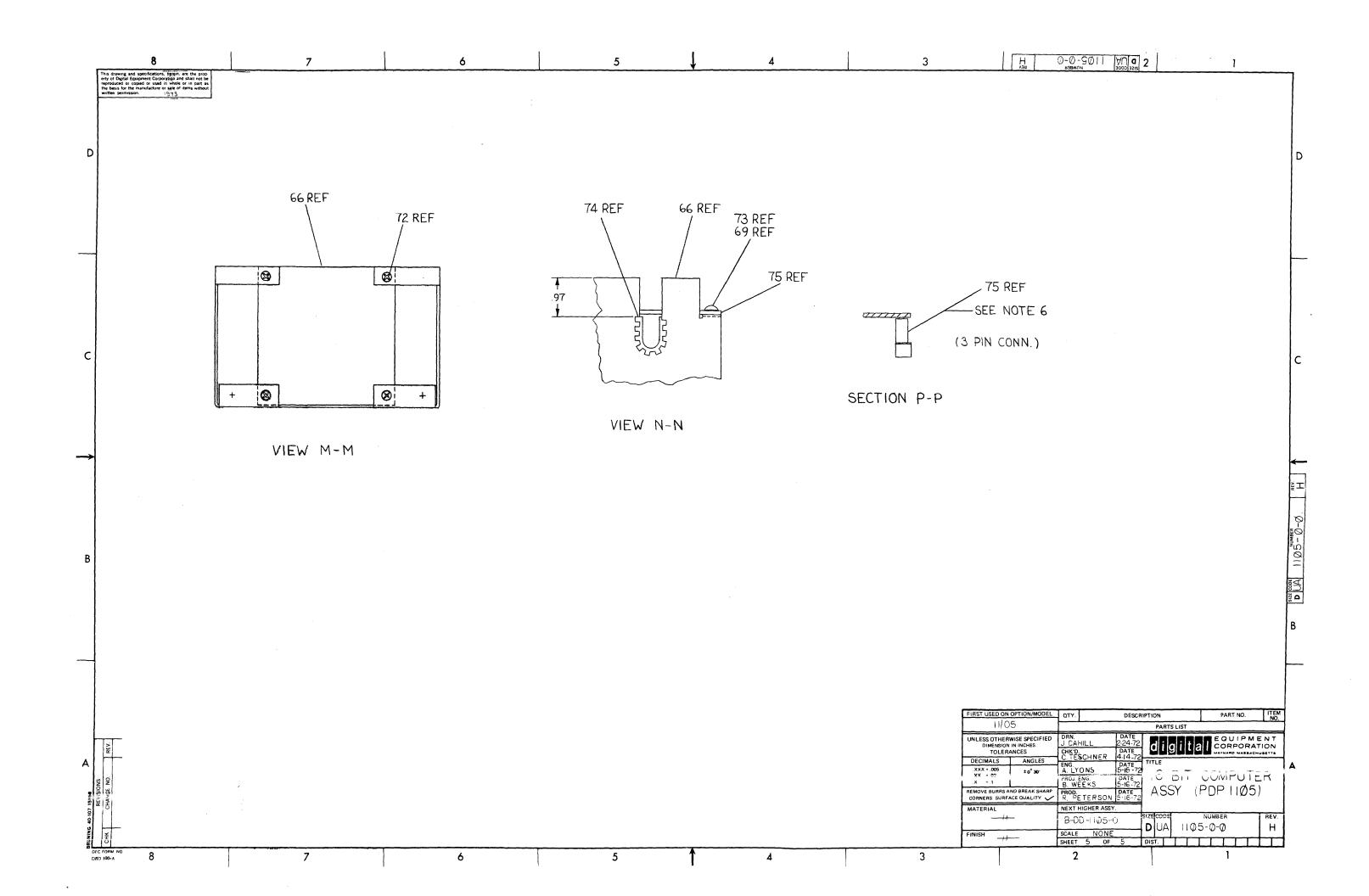
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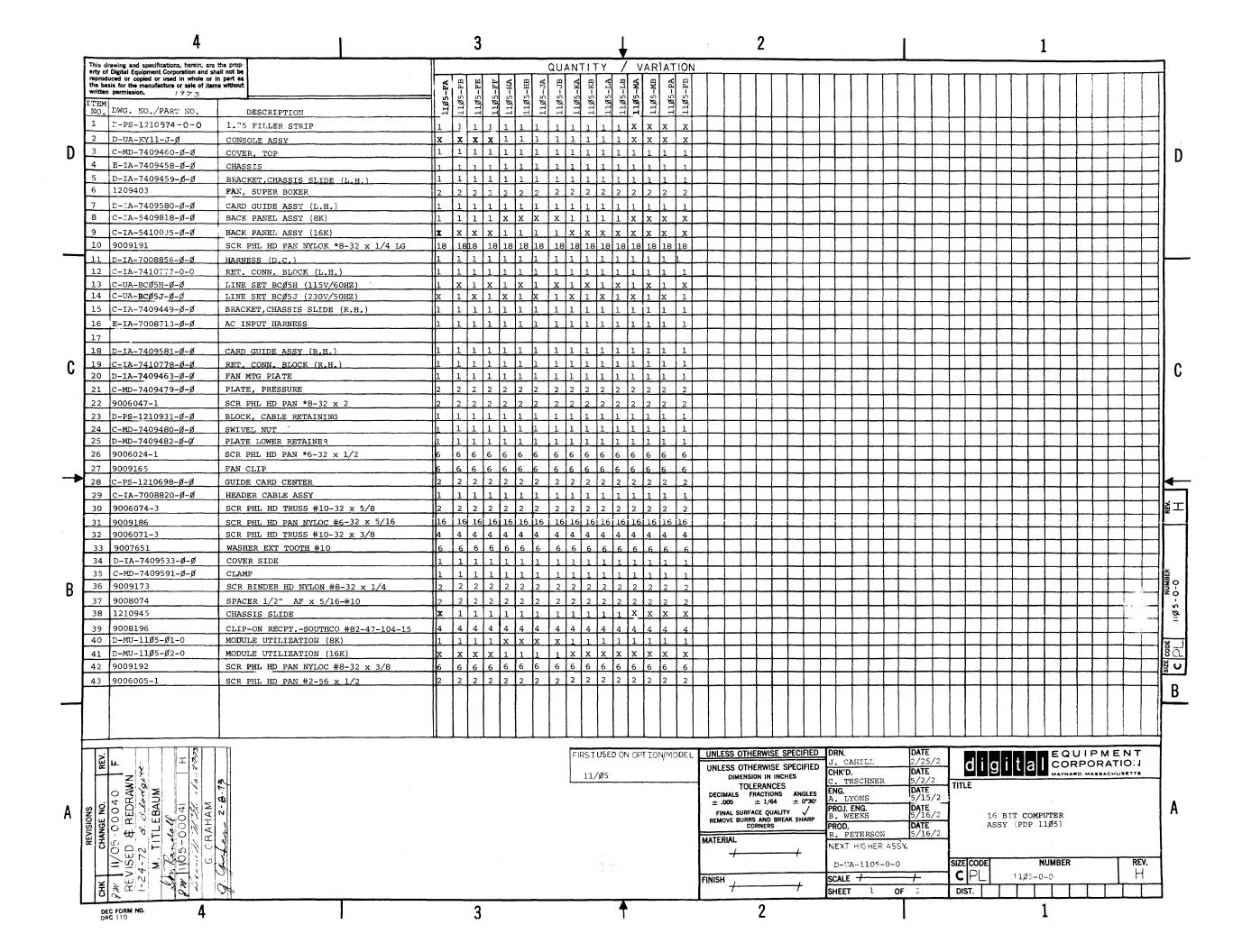


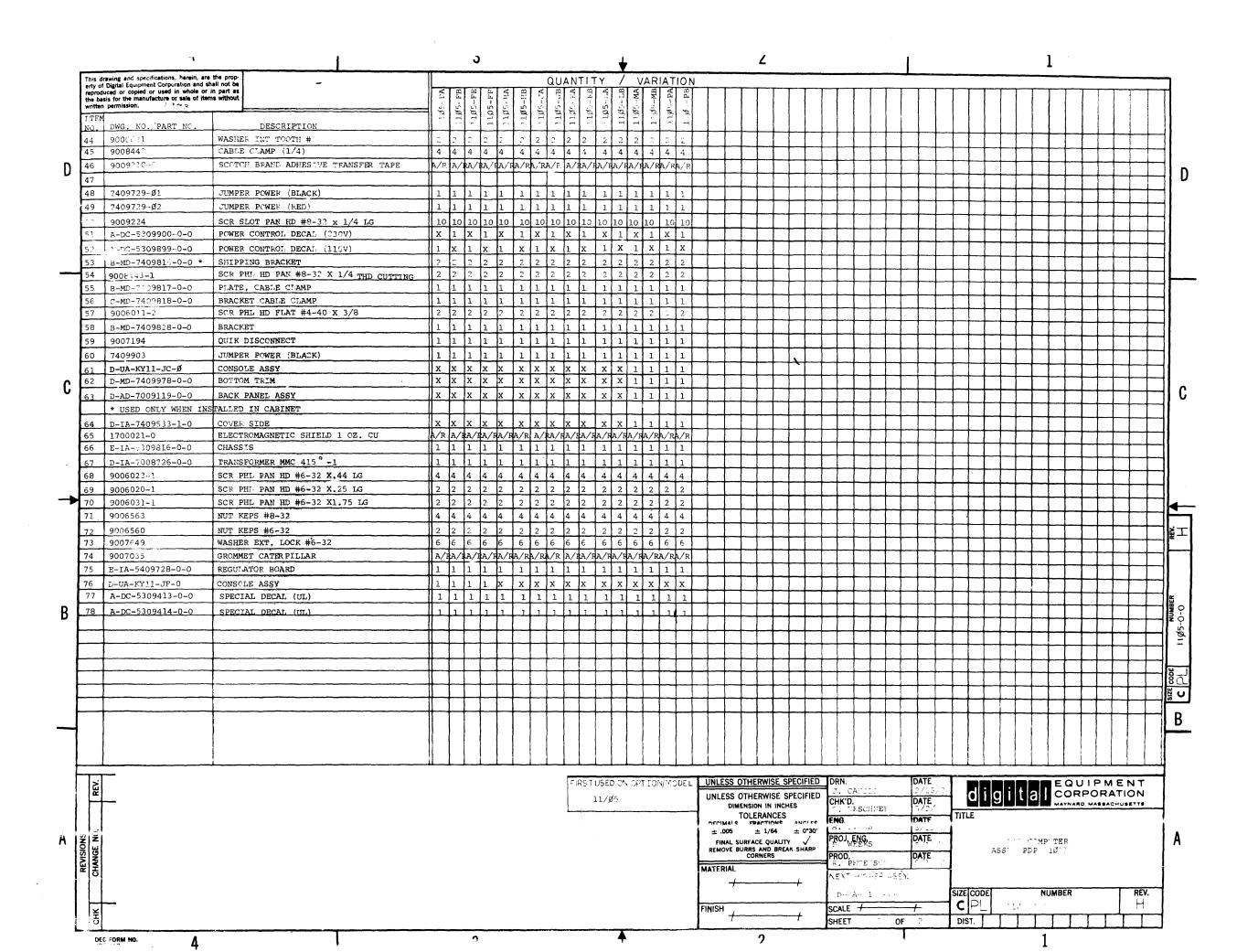




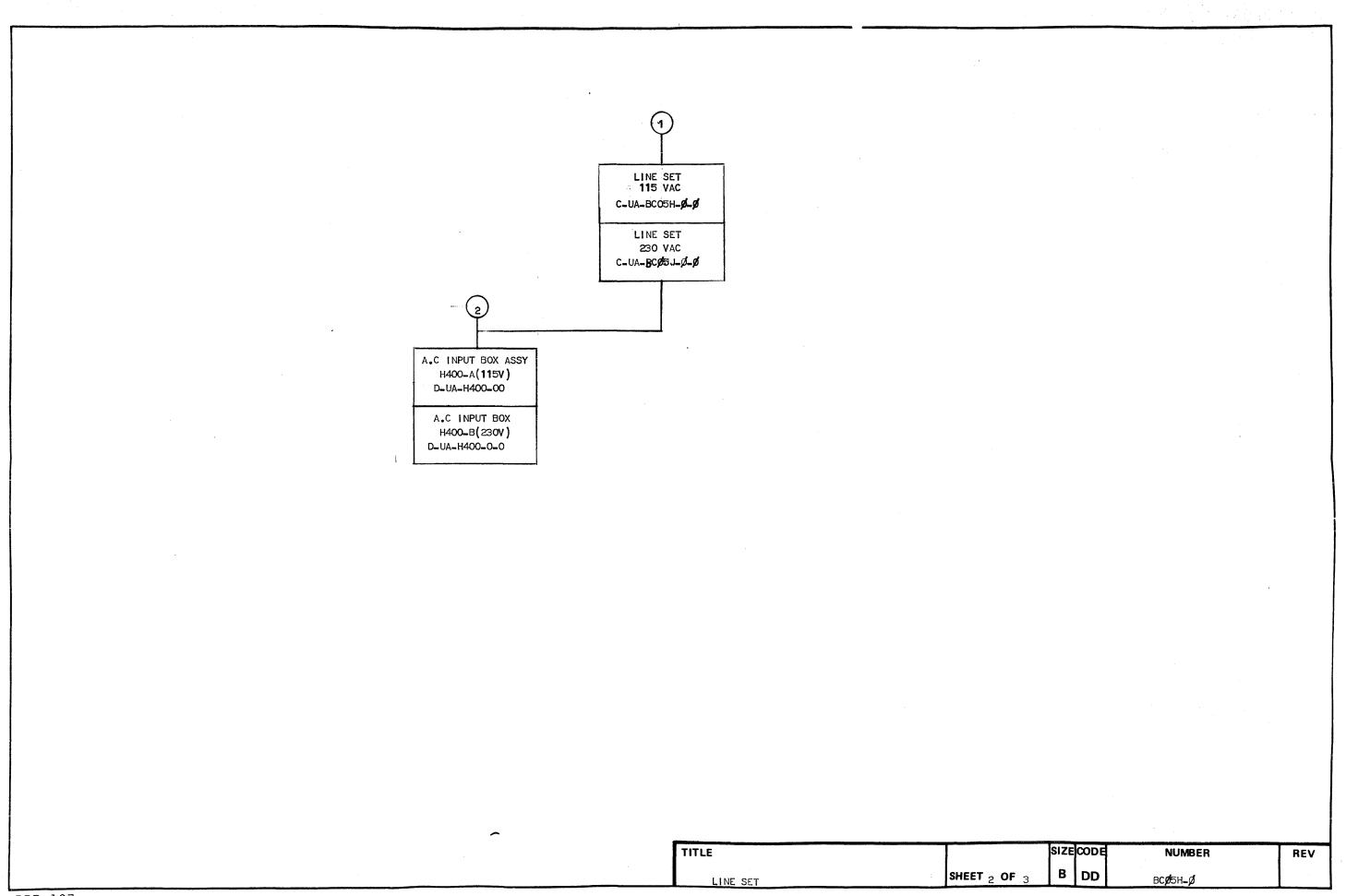




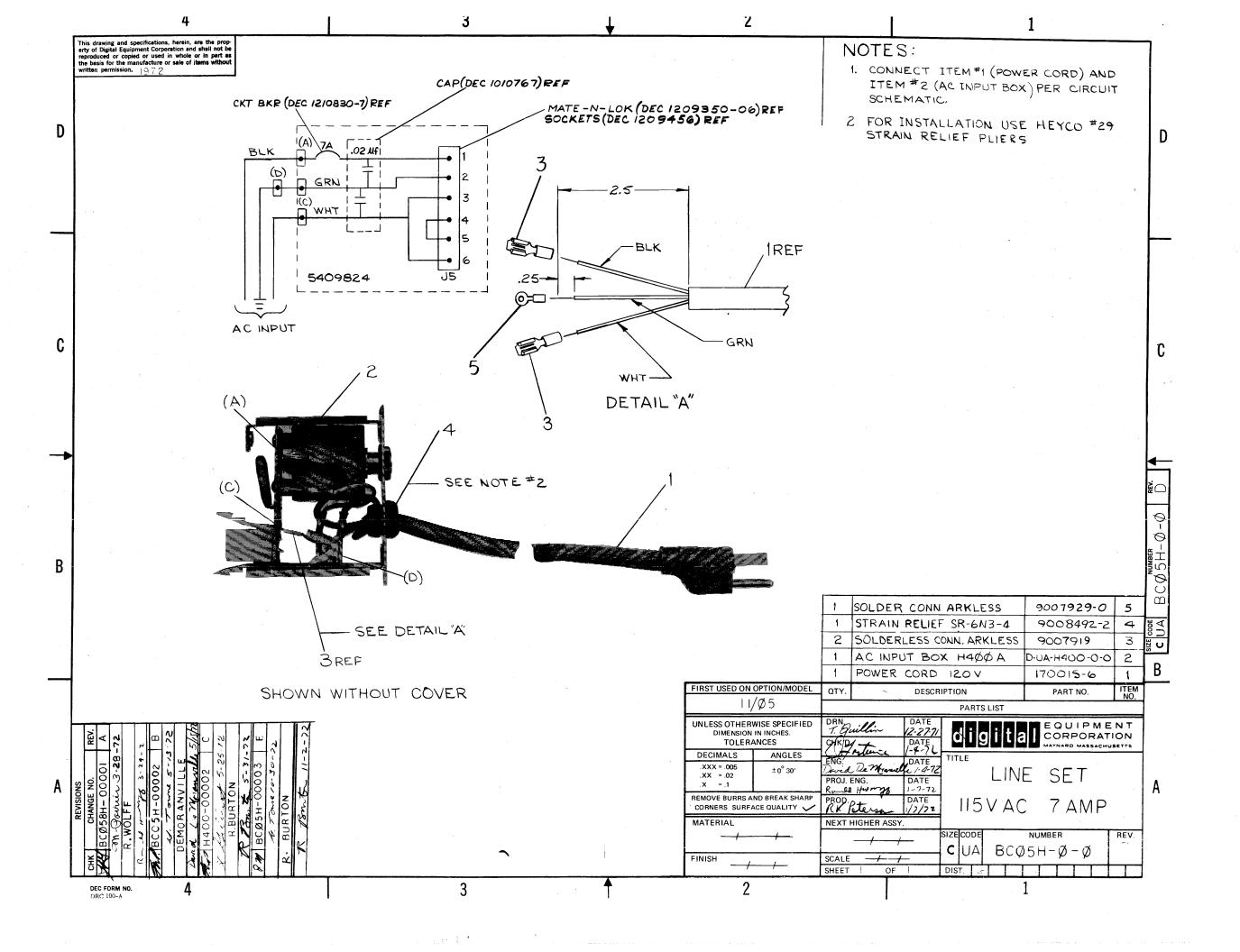


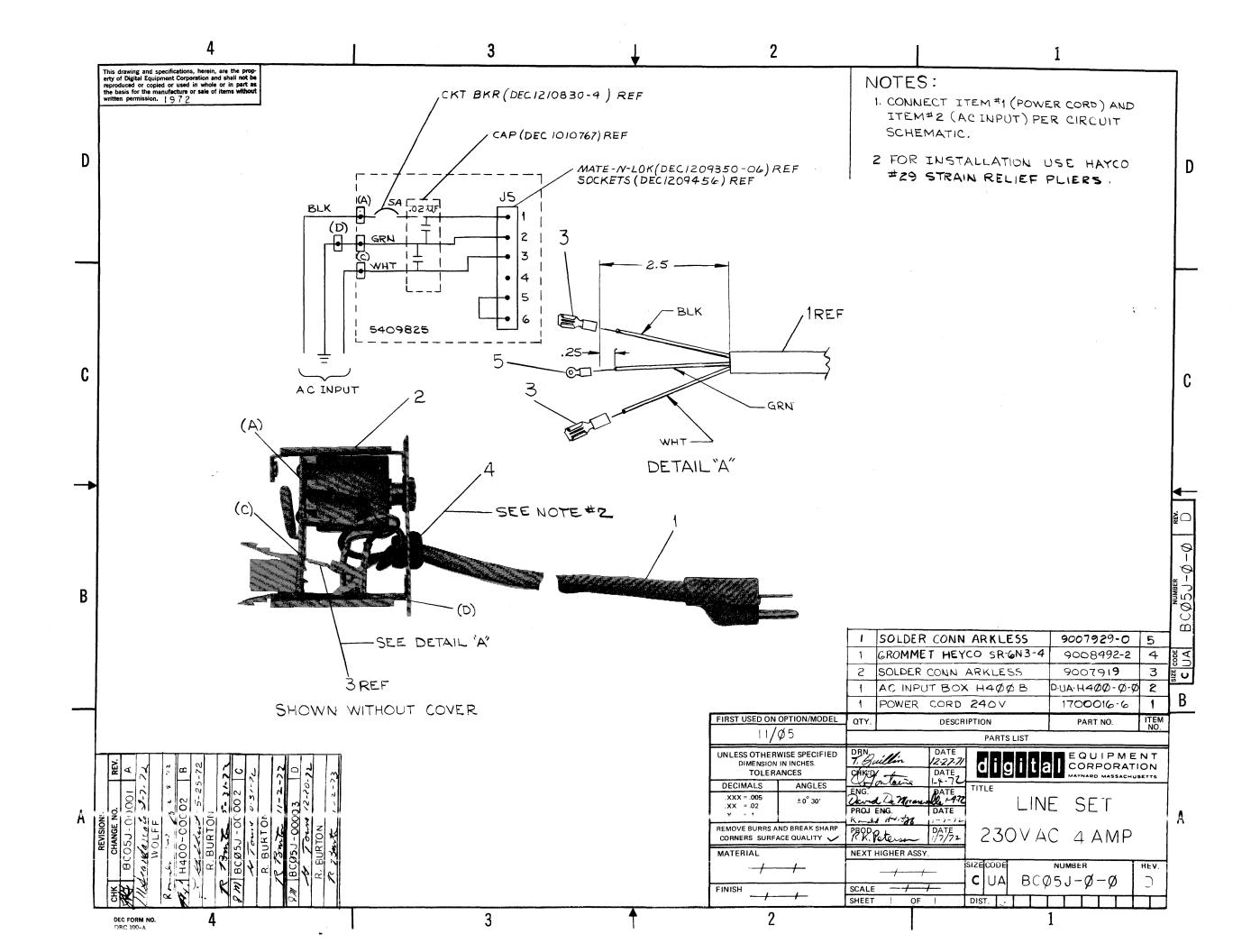


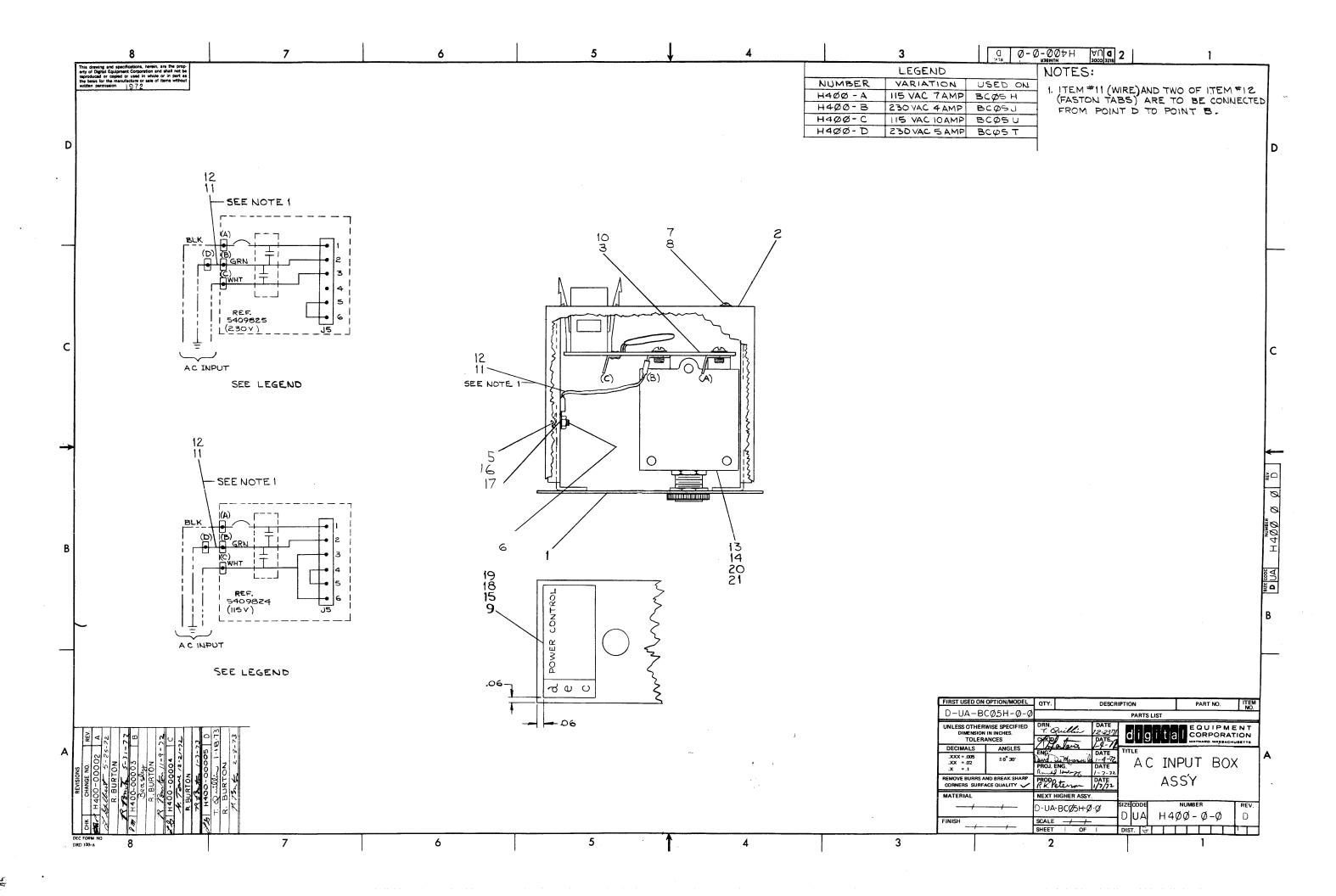
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A.C INPUT BOX (P.L) A-PL-H4ØØ-Ø-Ø PWR CONTROL BD. 115V C-1A-5409824-Ø-Ø		BC(5)H LINE SET 115VAC 7 AMP X BC(5)SJ LINE SET 230VAC 5 AMP X
PWR CONTROL BD. 230V C-1A-5409825-\$-\$		
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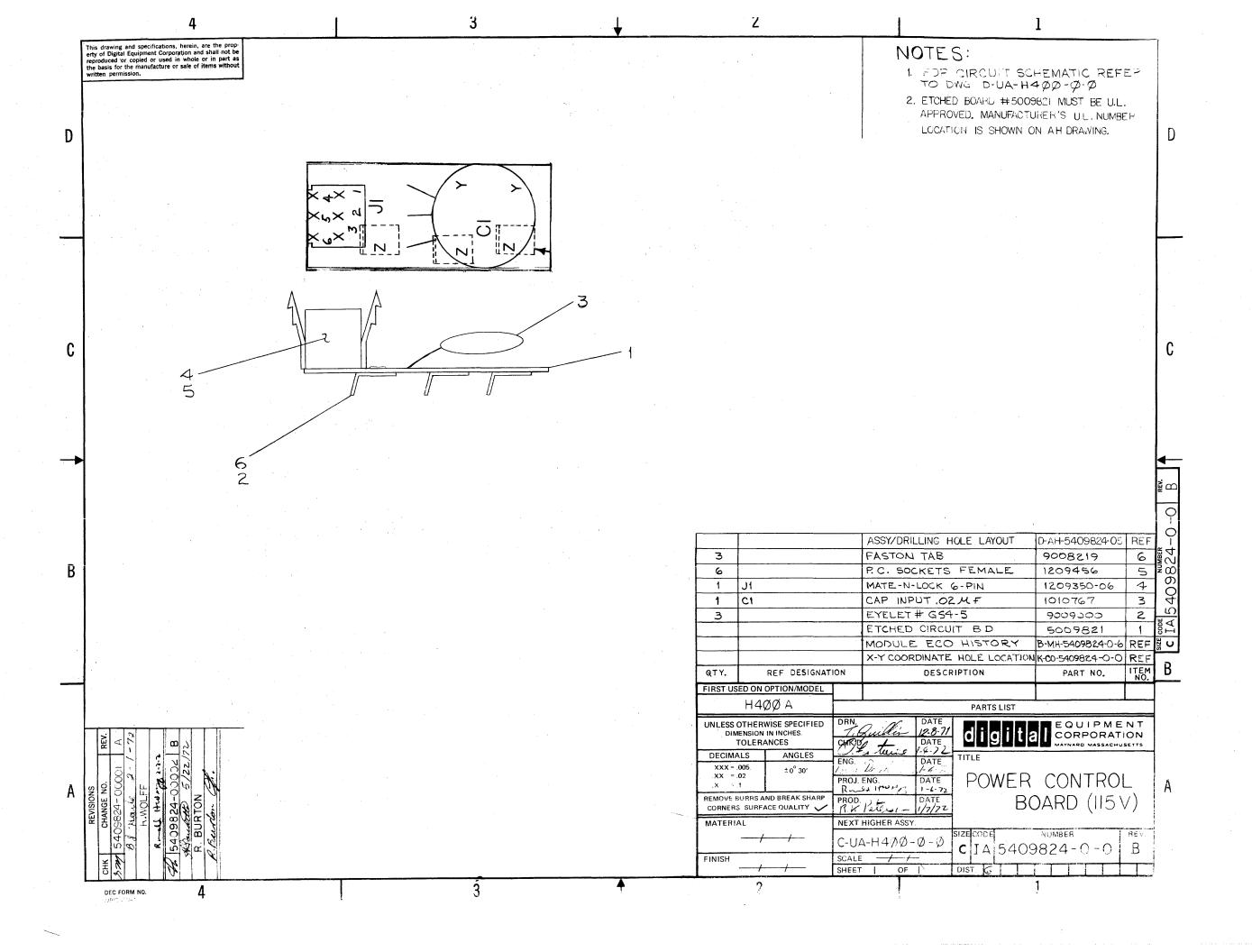


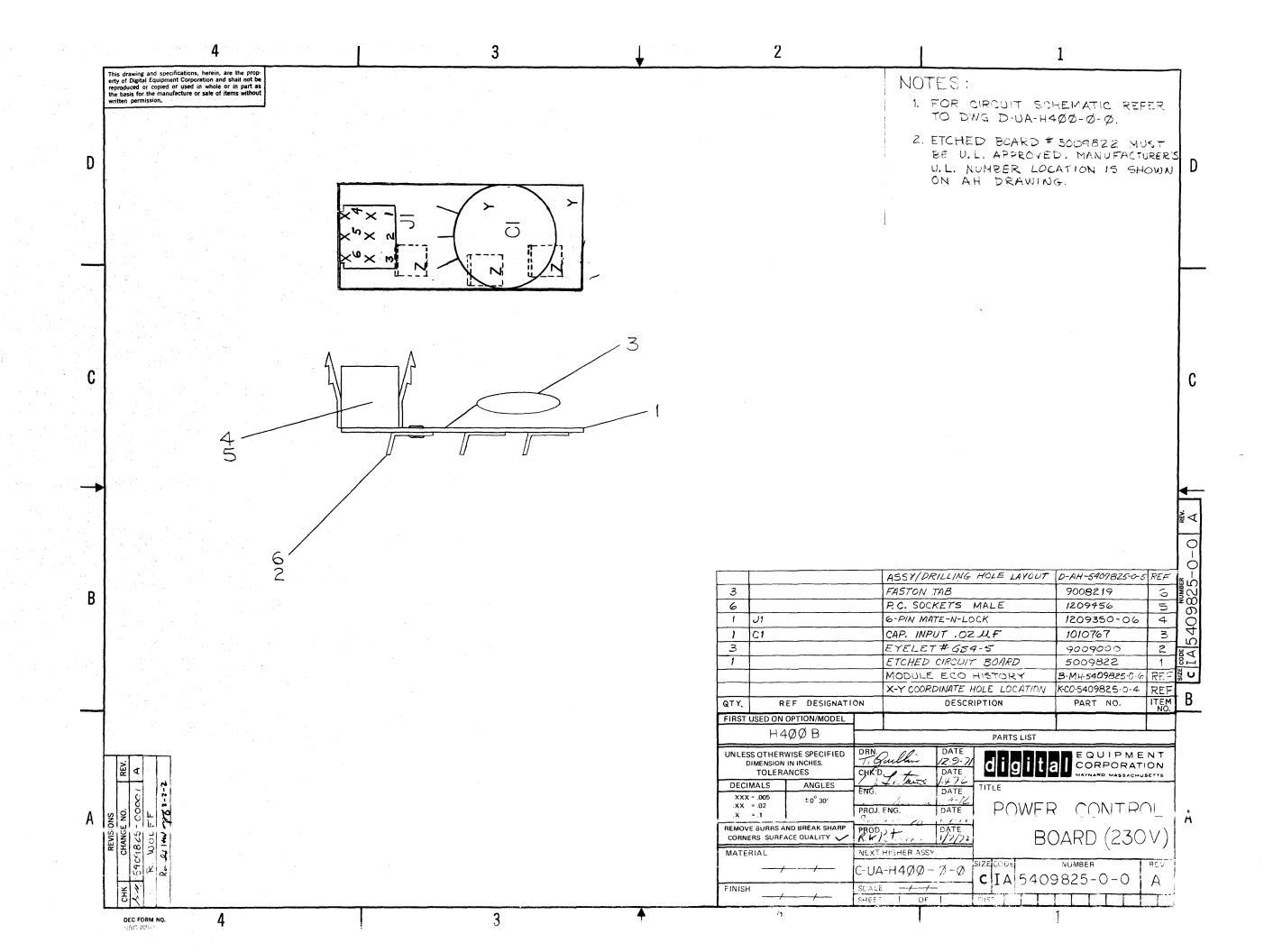


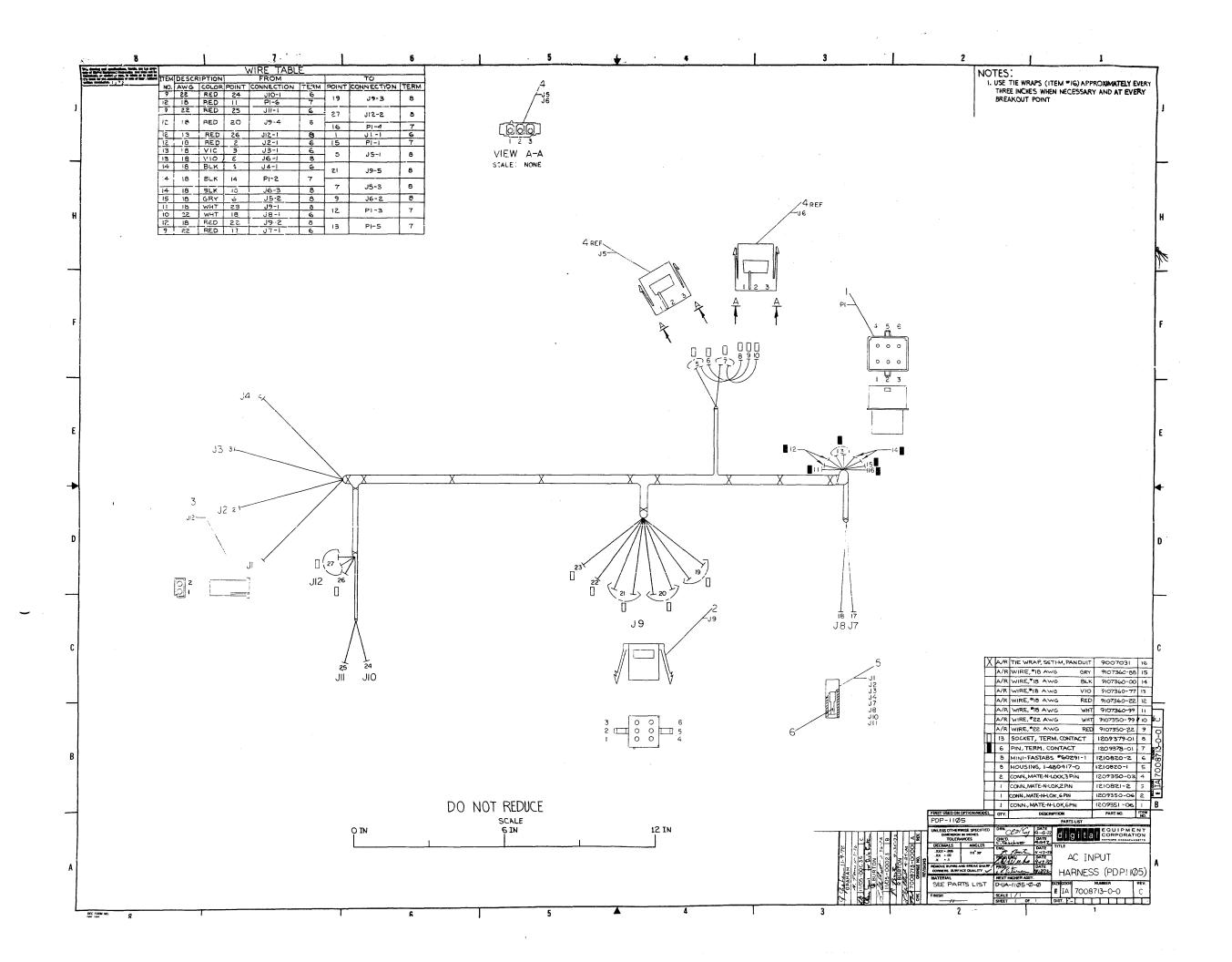


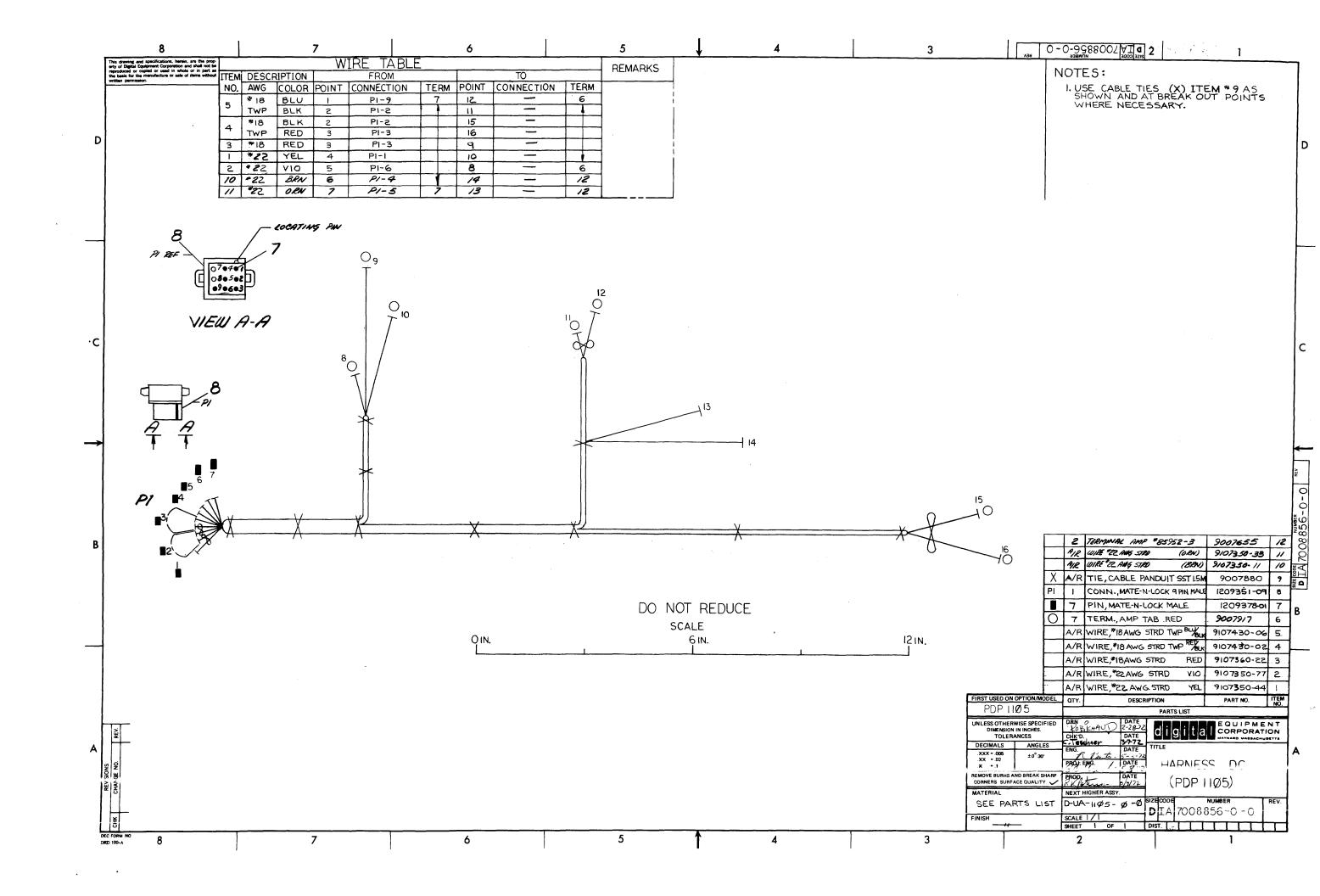
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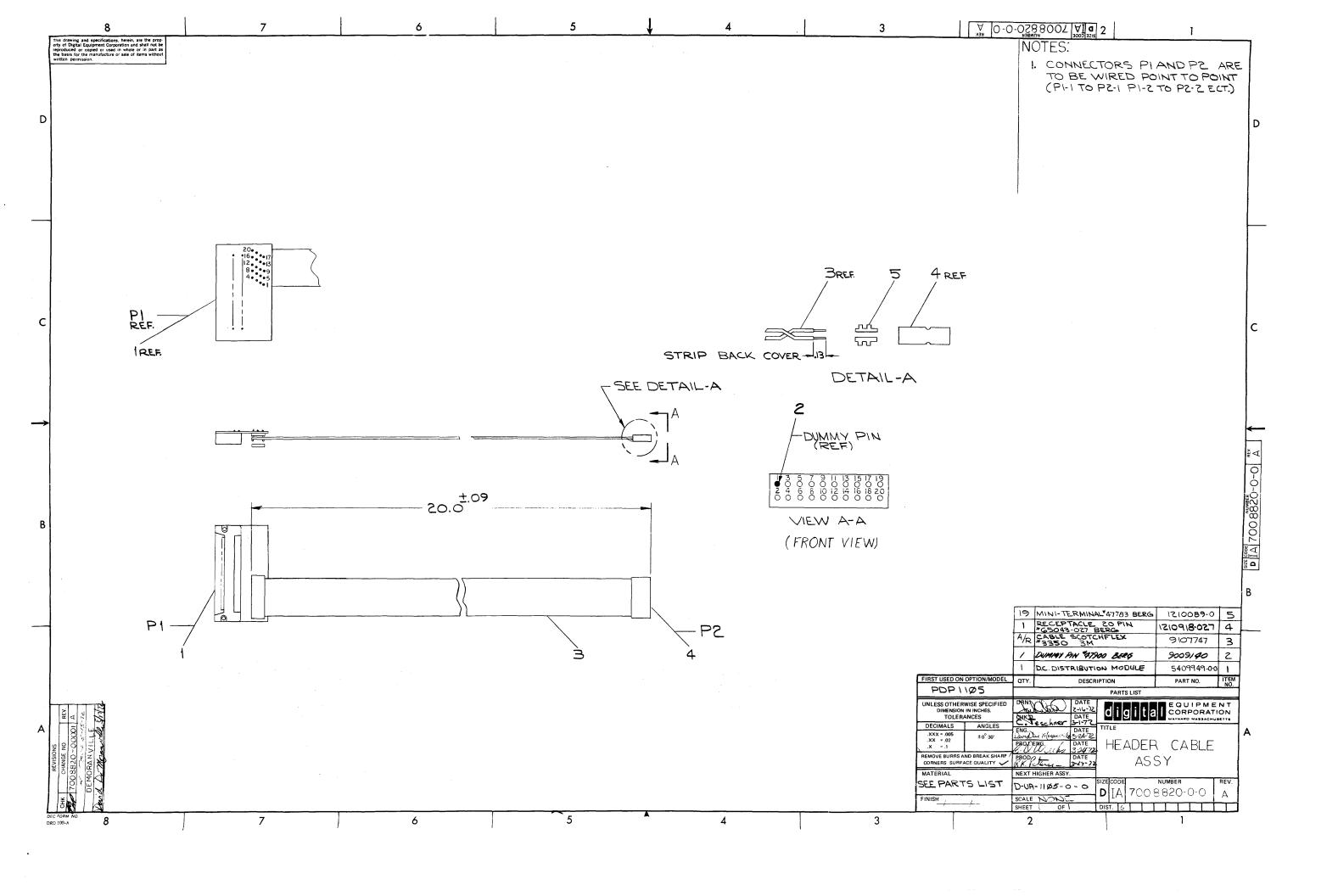
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3	C-IA-5409825-0-0	POWER CONTROL	BOARD (230)	7)			1		1.								
4	9007113	DOUBLE FASTAB				<u>+</u>	#		1								
5	9006011-1	SCR PHL PAN HD	#4-40 x 3	/8: LG		1	1	1									
6	9006557	KEP NUT HEX HD	#4-40			1	1	1									
7	9006633	ASHER INT. #6				1	1	ı	1								
8	9006020-1	SCR PHL PAN HD	#6-32 x ¼	LG		1	1	1									
9	A-DC-5309899-0-0	PWR CONTROL DE	CAL 115 V			1	-	_									
10	C-IA-5409824-0-0	POWER CONTROL	BOARD (115)	7)		1	_	1									
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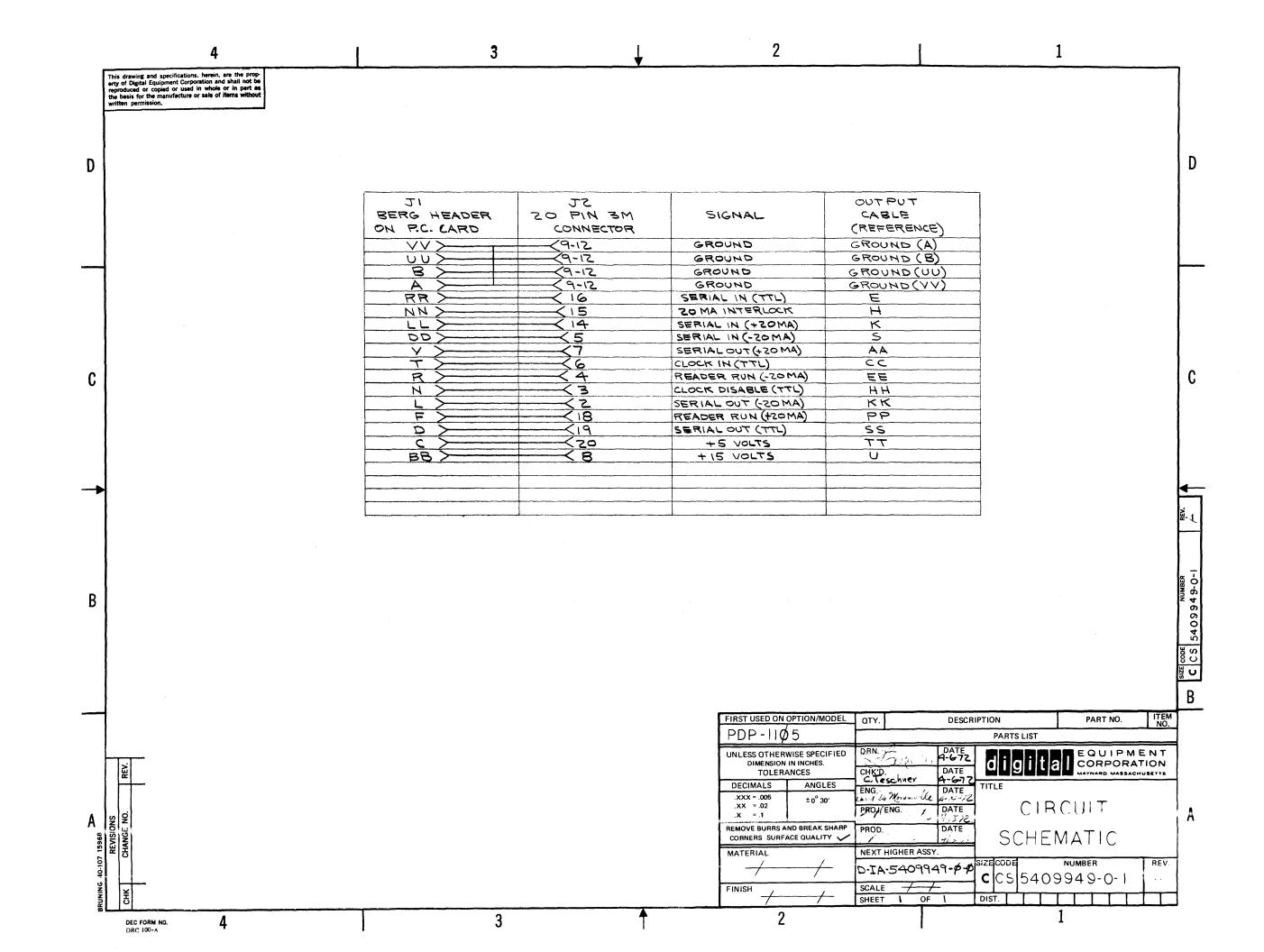


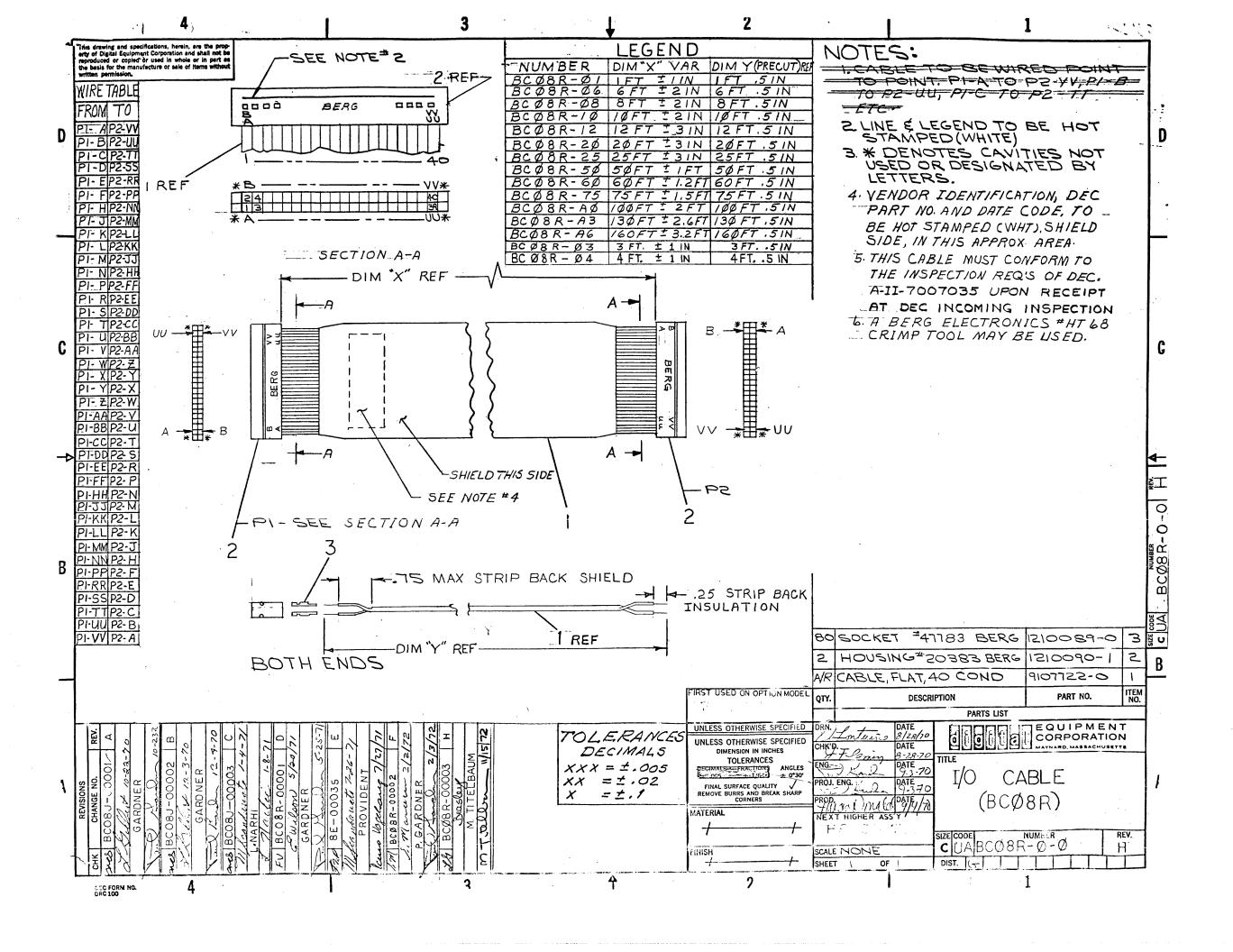












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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS **ENGINEERING SPECIFICATION DATE** 10/9/72

ACCEPTANCE PROCEDURE FOR BASIC PDP1105

REVISIONS

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SIZE CODE NUMBER APPD REV SP 11/05-0-6DEC FORM NO. Page 1 of 23

DEC FORM NO DEC 16-(381)-1022-N370

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

ACCEPTANCE PROCEDURE FOR BASIC PDP1105

1.0 SCOPE

- 1.1 This procedure establishes the minimum mechanical and electrical standards that a PDP11/05 must meet to be considered acceptable for shipment.
- 1.2 Any basic PDP11/05 that fails any portion of this procedure may be returned to production for correction of the discrepancy at the discretion of the acceptance supervisor. Upon resubmission of product acceptance, the PDP11/05 may be subjected to this entire procedure or portion thereof: provided no one step of this procedure is omitted.

2.0 INITIAL VERIFICATION

- 2.1 All PDP11/05's should have the T-17 (DØQE or latest revision) diagnostic in core when the machine is submitted to acceptance.
 - 2.1.1 Plug the power cord of the PDP11/05 into the appropriate AC outlet.
 - 2.1.2 Depress halt switch.
 - 2.1.3 Turn the key switch to power on.
 - 2.1.4 Set the switch register of the PDP11/05 to 200 (8).
 - 2.1.5 Ensure that both fans turn.
 - 2.1.6 Depress the "load address" switch.
 - 2.1.7 Put switches 11 and 15 in the up position and switch 8 in the down position.
 - 2.1.8 Depress the "Start" switch.
 - 2.1.9 After the PDP11/05 has been running for the time specified in Table 1 without halting, depress the "halt" switch. The machine should halt.
 - 2.1.10 Turn off the key switch and remove the AC cord from the power outlet.
- 2.2 Should the basic PDP11/05 fail to meet the requirements of 2.0, one reloading of the diagnostic will be allowed. (See 9.1 and 9.4.1.1 to 9.4.1.8). Should the PDP11/05 then fail to run properly as described in 2.1.1 to 2.1.10, it shall be rejected and returned to production for repair.

3.0 MECHANICAL INSPECTION

- 3.1 Description of sides.
 - 3.1.1 Front side shall be the console side.
 - 3.1.2 The right side shall be the side on the right when looking at the PDP11/05 from the front.

SIZE CODE NUMBER REV \mathtt{SP} 11/ø5-ø-6



CONTINUATION SHEET

TITLE ACCEPTANCE PROCEDURE FOR BASIC PDP11/05

- 3.2 Inspect the unit for conformance to "Hardware Assembly Standard" A-SP-7665099-0-0.
- 3.3 With the PDP11/05 chassis on its right side, check the bottom of the chassis for:
 - 3.3.1 Four (4) Phillips head screws with internal lock washers securing the power supply chassis to the PDP11/05 chassis.
 - 3.3.2 Three (3) Phillips head screws with internal lock-washers securing the logic to the chassis.
 - 3.3.3 Four (4) Phillips head screws with internal lock-washers holding the module guides in place.
- 3.4 With the PDP11/05 chassis on its bottom, check the left side for:
 - 3.4.1 Six (6) Phillips head screws with internal lock-washers securing the card guide supports.
 - 3.4.2 Side cover should have foam against the module handle This cover is secured to the chassis with four (4) Phillips head screws with internal lockwashers.
 - 3.4.3 Console cable should be routed to avoid damage from module handles.
- 3.5 Check the 54-9728 regulator module for six (6) Phillips head screws securing the module to the power supply chassis, these screws are located on the top of the module, one on each corner of the heat sink and one at each corner of the module at the end closest to the transformer.
 - 3.5.1 Make sure the regulator module is not bowed.
- 3.6 All wires must be tied neatly using cable ties.
- 3.7 Make sure that two (2) plastic cable clamps have been used to dress the AC harness wires coming from the AC input box and going to the power supply fan and the key switch.
- 3.8 The remaining wires should be supported by two (2) more cable clamps along the left side of the power supply chassis
- 3.9 Check all crimp connections by pulling gently on the wires entering the crimp. There should be no signs of looseness. The stranded wire should be exposed beyond the crimp approximately 1/16".
- 3.10 Check the male tabs to which the crimp connector attaches for cold solder joints and flux.

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- 3.11 Insure that an acceptance stamp appears on the top of the logic indicating that the logic has been tested by the AWT.
- 3.12 All units must be free of all loose hardware.
- 3.13 Inspect the AC power cord. The cord must be free from cuts, burns and abrasions.
- 3.14 There should be two (2) Phillips head screws with internal lockwashers securing the AC input box to the chassis.
- 3.15 The rear fan screw should not be missing, bent, or damaged in anyway.
- 3.16 The rear fan must be secured to the rear screen assembly by four (4) Phillips head screws with internal lockwashers.
- 3.17 A second cable clamp should be attached to the left rear of the chassis, across the cable access hole.

3.18 Failure Determination

- 3.18.1 Any PDP11/05 that fails to meet the criteria in 3.0 with the exceptions of 3.9 and 3.10 will be documented as a recycle, but the failure may be corrected in the acceptance area by a person (s) from production.
- 3.18.2 Any PDP11/05 that fails to meet the criteria outlined in 3.9 and/or 3.10 must be documented as a recycle and returned to the production area for correction of the discrepancy. Before the unit is returned to acceptance, a quick verify must be run in production.

4.0 MODULE INSPECTION AND LOGIC BLOCK CHECK

- 4.1 Remove and inspect all modules except power supply for conformance to the specifications listed.
 - 4.1.1 "Final Module Inspection Procedure" A-SP-7665039
 - 4.1.2 "Module Rework Standard" A-SP-7605845
 - 4.1.3 Memory Circuit Boards Acceptance Standards A-SP-7665052
- 4.2 Visually inspect the top of the 54-9728 regulator module for conformance to the specification listed in 4.1.1 and 4.1.2.
- 4.3 Check the modules for a circuit revision letter and an etch revision letter. These revision letters must be up to shippable ECO levels. A three (3) digit numeric date code must be present on the module handle. If ECO levels are correct, sign the ECO status sheet.
 - 4.3.1 Check the component lead length on side 2 of each module. The leads must not protrude more than 1/16.

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- 4.3.2 Make sure all "ROM's" are marked for identification and ensure the markings are legible.
- 4.3.3 Make sure the pot on the GllO module is glyptolled to prevent a change in strobe setting.
- 4.3.4 Make sure the serial number stamped on the three (3) memory modules matches the number on the systems tag.
- 4.4 When the modules have been removed from the logic block. inspect the logic block.
 - 4.4.1 Any chip or crack which could conceivably allow a shorting of two or more logic pins will not be acceptable.
- 4.5 Replace the modules in the block in their proper slots.

5.0 POWER & GROUND CHECK

- 5.1 Make sure the PDP11/05 is not plugged into an AC power
- 5.2 Check chassis ground.
 - 5.2.1 Set a Simpson Module 362 ohmmeter or equivalent to the adjust setting and zero the meter.
 - 5.2.2 Set the Simpson Module 362 ohmmeter to the ground pin on the AC power cord.
 - 5.2.4 Put the other lead of the ohmmeter to the ground lug on the logic block. The ohmmeter should read less than lx.
 - 5.2.5 Remove the lead from the ground lug and put it to the screw on the heat sink of the regulator module that is surrounded by bare metal. The ohmmeter should read less than 1/2.
 - 5.2.6 Remove the lead from the screw on the regulator module and put it on a screw on the PDP11/05 chassis. The ohmmeter should read less than 1π .
 - 5.2.7 Remove both ohmmeter leads.

5.3 Power Supply Check

- 5.3.1 Plug the power cord of the PDP11/05 into an appropriate AC outlet.
- 5.3.2 Turn on the key switch on the PDP11/05 console.
- 5.3.3 Using a Dixson VT-300 meter or its equivalent, measure the power supply voltages on the logic backplane. See attachment 1 for lead placement and voltage tolerances. Record voltages on checklist. (Attachment # 5.)

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5.4 Failure Determination

5.4.1 If any PDP11/05 fails any portion of 5.0, it shall be documented as a recycle and returned to production for repair.

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5.4.2 Upon resubmission to acceptance the PDP11/05 will be visually inspected to ensure all hardware is present and the PDP11/05 will be required to pass 5.0.

6.0 QUICK VERIFY

- 6.1 Remove terminator per table two and connect the PDP11/05 to a daughter station then connect the teletype to the 11/05 under test.
- 6.2 Set the program select register switches to reflect the memory size of the PDP11/05 under test (See Table # 4).
- 6.3 Set the "mode" switch to processor.
- 6.4 Set the "function" switch to quick verify.
- 6.5 Set the "type" switch to 11/05.
- 6.6 Turn on power to the PDP11/05 and put the "enable/halt" switch in the enable position.
- 6.7 Momentarily depress the "initialize" switch on the daughter station.
- 6.8 A pass complete message should appear when test is finished.
- 6.9 Disconnect the 11/05 from the daughter station and replace the terminator.

6.10 Failure Determination

6.10.1 Should the PDP11/05 not run the quick verify properly after the first load, the machine will be documented as a recycle and returned to production for repair.

7.0 CONSOLE TEST

- 7.1 Depress "enable/halt" switch.
- 7.2 Turn on power to the PDP11/05.
 - 7.2.1 Load Address 100g.
- 7.3 Set "052525" in the switches and lift "DEPosit".

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- 7.4 Set " 125252_8 " in the switches and lift "DEPosit".
- 7.5 Load address 100_o
- 7.6 Depress and release EXAMINE.
- 7.7 The address/data display should contain "0525258".
- 7.8 Depress and release EXAMINE.
- 7.9 The address/data display should contain "1252520".
- 7.10 Load address 100_{Ω}
- 7.11 Set "000777 $_{\Omega}$ " in the switches and lift DEPOSIT.
- 7.12 Put "enable/halt" switch in ENABLE position.
- 7.13 Depress and release "START" switch. The RUN light should light.
- 7.14 Turn console key to PANEL LOCK position.
- 7.15 Put ENABLE/HALT switch in HALT position. The RUN light should remain lit.
- 7.16 Turn console key to "POWER" position. The PDP11/05 should

7.17 Failure Classification

- 7.17.1 Any PDP11/05 that fails to pass 7.1 to 7.16 shall be documented as a recycle and returned to production for repair.
- 7.17.2 Upon resubmission to acceptance, the PDP11/05 may, at the discretion of the acceptance supervisor, be required to pass 24 hours of burn-in.

7.18 Paper Tape Load

7.18.1 Determine start address and load at that address.

4K = 17744

8K = 37744

12K = 57744

16K= 77744

- 7.18.2 Load bootstrap loader per PDP11 instruction card.
- 7.18.3 Load start address as in 7.18.1
- 7.18.4 Read in absolute loader paper tape from teletype.
- 7.18.5 Load start address as follows:

4K = 17500

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8K = 37500

12K = 57500

16K = 77500

- 7.18.6 Load MAINDEC-11-DØMA (Tl3) thru teletype.
- 7.18.7 Load 200 ($_{Q}$).
- 7.18.8 Put switch 15 up and start.
- 7.18.9 Allow program to run one pass (One TTY bell). It will halt on error.

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7.18.10 Shut off machine and proceed with the next test.

8.0 UNIBUS TESTER

- 8.1 Insert the unibus cable coming from the unibus tester into the appropriate logic slot in the PDP11/05. First remove terminator from the slot in the PDP11/05. See Table II.
- 8.2 Plug the PDP11/05 into an appropriate AC power source.
- 8.3 Turn on power to unibus tester.
- 8.4 Turn on the power to the PDP11/05.
- 8.5 If machine has only 4K of memory:
 - 8.5.1 Load unibus test program (Octal number 143).
 - 8.5.2 Load address 200 ($_{\Omega}$).
 - 8.5.3 Depress START
 - 8.5.4 Program will run continuously without typeout until stopped by operator. Let the program run for 30 minutes. If program fails, it will halt.
- 8.6 If machine has 8K or more of memory"
 - 8.6.1 Load GTP program (Octal number 135)
 - 8.6.2 Load address 200 (a).
 - 8.6.3 Set bits 0 through 15 up.
 - 8.6.4 Set bits 4, 8, 9 and 14 down and press start.
 - 8.6.5 Set bits 0 through 15 up and press continue two
 - 8.6.6 Set bits 0 through 15 down and press continue.

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8.6.7 Program will run continuously with typeout until stopped by operator. Let the program run for 30 minutes. If program fails, it will halt and type out error message.

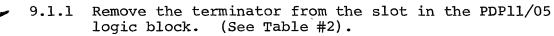
8.7 Power Down Sequence

- 8.7.1 Halt the 11/05.
- 8.7.2 Turn key switch of 11/05 to OFF.
- 8.7.3 Take daughter station off line.
- 8.7.4 Remove unibus cable and replace terminator.
- 8.7.5 If desired, you may shut off the unibus tester.

9.0 ELECTRICAL ACCEPTANCE

This test is to be run in the heat box at high temperature.

9.1 Connecting the PDP 11/05 to a daughter station.



- 9.1.2 Insert the unibus cable from the daughter station into the slot in the PDP11/05 logic block specified in Table #2.
- 9.1.3 Connect the teletype to the Berg connector on the back of the PDP11/05 chassis.
- 9.1.4 Plug the power cord on the PDP11/05 into an appropriate AC outlet.

9.2 PDP11/05 Diagnostic Testing

9.2.1 The normal mode of diagnostic testing for the PDP11/0! shall be the automatic acceptance method described in 9.3. An alternate method of diagnostic testing is described in 9.4. This method shall be used in the event of an automatic acceptance system hardware failure and must have the acceptance supervisor's approval.

9.3 Automatic Acceptance

- 9.3.1 Set the "type" switch to 11/05-1.
- 9.3.2 Set the "mode" switch to processor.
- 9.3.3 Set the "function" switch to auto accept.
- 9.3.4 Set the "on line" switch to the UP (one) position.
 The on line light should be lit.
- 9.3.5 Set the "heat" switch and the "repeat" switch to the UP (one) position.

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- 9.3.6 Set the program select register switches to reflect the memory size of the PDP11/05 under test (See Table #4).
- 9.3.7 Depress the initialize switch momentarily.
- 9.3.8 Check to make sure no error lights are lit. If one is, halt the PDP11/05 and repeat 9.3.1 to 9.3.7 once. If an error light is lit after the second loading attempt, the machine will be recycled and subject to 10.0.
- 9.3.9 After approximately 1 hour, 45 minutes for 4K and 3 hours 45 minutes for 8K, the TTY should print out a pass complete message.
- 9.3.10 Load the T17 diagnostic (Section 9.4.1.8)
- 9.3.11 Verify program runs in machine.
- 9.3.12 Remove machine from acceptance station.

9.4 Automatic Acceptance Backup

- 9.4.1 This section is to be used as back up if the auto accept function of the test line is not working.
 - 9.4.1.1 Manually set the octal location of the program to be run in the program select register. (See Table #3).
 - 9.4.1.2 Set the "type" switch to 11/05-1.
 - 9.4.1.3 Set the "mode" switch to processor.
 - 9.4.1.4 Set the "function" switch to dump.
 - 9.4.1.5 Set the "on line" switch to the UP (one) position.
 - 9.4.1.6 Set the "heat" and "repeat" switches to UP (one) position.
 - 9.4.1.7 Momentarily depress the "initialize switch.
 - 9.4.1.8 Make sure no error lights are lit. If one or more error lights are lit, repeat steps 9.4.1.1 to 9.4.1.7 once. If an error light is lit after the second loading attemp, the machine will be recycled and subject to 10.0.
 - 9.4.1.9 Set the PDP11/05 switch register to 200. Depress load address. Depress START.
 - 9.4.1.10 Program should be running. Run the program the required length of time (See Table #3).
 - 9.4.1.11 Load the next program listed in Table #3 as in steps 9.4.1.1 to 9.4.1.16.

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- 9.4.2 All programs listed in Table 3 must be run in the order listed
- 9.4.3 Load the PDP11/05 memory with the modified T17 diagnostic before sending machine to final inspection area.
- 9.4.4 Remove the unibus cable and insert the terminator. (see Table #2).

9.5 50 Cycle Conversion

- 9.5.1 If a machine must be converted to 50 cycle, it will be done after auto accept but before touch up.
- 9.5.2 After conversion, run the following tests:
 - A. Power and ground per paragraph 5.0.
 - B. GTP with power fail option (if only 4 K, run T-17 and power fail).

9.6 Failure Classification

- 9.6.1 Any PDP11/05 that fails 9.4.0 or 9.5.2 will be documented as a recycle and will be returned to production for repair.
- 9.6.2 Upon resubmission to acceptance, the PDP11/05 may, at the discretion of the acceptance supervisor, be required to pass 24 hours of burn-in.

9.6.3 See next page. 10.0 DOCUMENTATION AND FAILURE CLASSIFICATION (con't)

- 10.1 Each system accepted against section 9.0 (Electrical Acceptance) of this procedure must have a completed log sheet and a PDP11/05 basic acceptance checklist added to its test and inspection envelope. See attachments.
- 10.2 Any unit which fails to properly run diagnostics according to MAINDEC documents other than continuously and as specified will be classified defective and returned to production for rework. Printouts, if generated will be returned to production with the PDP11/05.
- 10.3 Any system which has had any major modification as listed below; must be recycled through the entire production checkout procedure (including the heat cycle) prior to resubmission to the acceptance area. These machines will be required to undergo another 24 hours burn-in.
 - A. Power Supply replacement.
 - B. Memory System replacement.
 - C. Any module replacement in the processor or the front panel.

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> 9.6.3 Any PDP11/Ø5 that only fails T166 (KWl1-L) during auto acceptance will have T166 loaded as described in sections 9.4.1.1 -9.4.1.1 \emptyset . If the program runs for $1\emptyset$ minutes the PDP11/ \emptyset 5 shall be considered as having passed section 9.3 (Auto Acceptance).

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10.3.1 The front panel may have switches and/or LED's replaced and must undergo a Quick Verify only.

11.0 PREPARING MACHINES FOR SHIPMENT

- 11.1 All paperwork (logics, checklists, etc.), will be complete before the PDP11/05 leaves the electrical acceptance area.
- 11.2 Load the machine with T17 (4K) or GTP (8K or more), before sending to touch-up.

12.0 MECHANICAL TOUCH-UP

- 12.1 The PDP11/05 will be sent to the production touch-up area. The PDP11/05 will have minor mechanical defects corrected (keys put with the machine) and installed in a cabinet if necessary.
- 12.2 All hardware (chassis, tracks, etc.) will be secured to the chassis. The cover to the PDP11/05 will not be secured at this time. This will allow the final visual inspection of the PDP11/05 to be performed.

13.0 FINAL ACCEPTANCE

- 13.1 The test and inspection envelope of each PDP11/05 submitted to final acceptance must have lines #1 through #8 signed off. The envelope will contain the following:
 - A. Key Sheet (original and at least 6 copies).
 - B. Electrical acceptance checklist.
 - C. Progress reports.
 - D. ECO Status Sheets (white, pink and blue copies).
 - E. Waiver if needed (white, pink, and yellow copies).
 - F. Blanket waiver if needed (2 copies).
 - G. Construction Requisition (green copy).
 - H. Transfer sheet.
- 13.2 Check for 100% agreement between the key sheet, construction requisition, physical unit and print set.
- 13.3 If the documentation outlined in 13.1 through 13.3 is missing, incorrect, or incomplete, the system will be classified as being "down" and will not proceed any further until all documentation has been completed by the responsible production person (s).
- 13.4 Visually inspect the PDP11/05.
 - 13.4.1 Ensure that all hardware is present and tight.
 - 13.4.2 Check all decals for readability. If decal has missing letters or is illegible, the decal must be replaced.

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- 13.4.3 Patent decal.
- 13.4.4 The unit must be free of all foreign matter.
- 13.4.5 Insure that the unit has keys secured to the power cord
- 13.4.6 Move each switch up and down at least two (2) times to ensure each switch is unrestricted and operates freely.
- 13.4.7 Missing letters and chipped areas will not be allowed on silk screening.
- 13.4.8 Inspect each basic PDP11/05 for conformance to DEC STD 092 and recycle units to touch-up as required.
- 13.4.9 Check for foam on side cover.
- 13.4.10 Check to assure console cable is folded under the memory stack handle.
- 13.4.11 Check for unibus cable clamp and "handle".
- 13.4.12 Have top cover secured to the chassis, and sealed.
- 13.4.13 Check the power cord for cuts, abrasions, etc.

13.5 Electrical Verification

- 13.5.1 Complete one pass of the program in memory (T-17) for 4K of GTP for 8K and more. Exercise both TTY reader and punch while making a pass.
- 13.5.2 Console test run per paragraph 7.0.
- 13.5.3 Failure Classification
 - 13.5.3.1 Any PDP11/05 that fails 13.5.1 or 13.5.2 will be documented as a recycle and returned to production for repair.
 - 13.5.3.2 The acceptance supervisor will determine what must be run against the recycled unit when it is returned to acceptance.
 - 13.5.3.3 Turn ON/OFF switch several times. Test should continue without error.

13.6 Supplementary Accessory Checklist

- 13.6.1 This form will be filled in by the final inspector.
 - 13.6.1.1 The form will contain all software, prints, and accessories going to a customer.
 - 13.6.1.2 After completing the form, it should be signed by the inspector and inserted in the T. & I. envelope.

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- 13.7 Separating the paperwork in the T. & I. envelope.
 - 13.7.1 All the paperwork in the T. & I. envelope will be taken out of the envelope and separated.
 - 13.7.1.1 Take the key sheet (two copies) the accounting form, and the green copy of the construction requisition, clip them together and put them in a separate pile.
 - 13.7.1.2 Take the test data, progress reports, final inspection reports, key sheet (one copy) and clip them together.
 - 13.7.1.3 Put these papers in another pile. Get our copy of the construction requisition and attach key sheet (one copy) waiver, (white, and pink copy if needed) and clip them together. Take these papers to Field Service where they will type up the customer envelope
 - 13.7.1.4 Take the pink copy of ECO status sheet and the Supplementary Accessory check list and insert in the customer envelope.
 - 13.7.1.5 Have production stick the "silly sticker" on the top of the PDP11/05.
 - 13.7.1.6 Have the PDP11/05 moved next to the software that will be shipped with the unit.
- 13.8 A shipping tag must be made out for each box (listing the contents) or unpacked article. (See attachment #4).
- 13.9 Accessories shipped with each PDP11/05.
 - 13.9.1 All basic PDP11/05 computers will be shipped with the following:
 - 13.9.1.1 Prints
 - 13.9.1.2 Manuals
 - 13.9.1.3 Customer envelope
 - 13.9.1.3.1 Contents of customer envelope will include:
 - a. ECO Status Sheet (pink copy)
 - b. Supplementary Accessory Checklist.
 - c. Customer Acceptance Sheet
 - d. Key Sheet
 - 13.9.1.3.2 After the customer envelope has been check for contents, it will be sealed and placed in the software box.
- 13.10 Items shipped if required by the construction requisition.

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- 13.10.1 Basic Software and Accessory List.
 13.10.1.1 LIB KIT 11/05 BASEA-A-K
- 13.10.2 Extended software and accessory list.
 - 13.10.2.1 LIB KIT 11/05 XBASA-A-K
- 13.10.3 If the basic PDP 11/05 is to be shipped with a teletype, it must also include the teletype accessory list.
 - 13.10.3.1 Teletype accessories include:
 - a. 310B Teletype Manual Vol. I
 - b. 310B Teletype Manual Vol. II
 - c. 1184B Teletype Parts List
 - d. 36-5365 l roll of teleprinter paper
 - e. 36-5630 l each teletype ribbon
 - f. 36-5360 3 each rolls of oiled paper tape
 - g. F4/e/69/260 paper price list.
- 13.11 After software, accessory hareware, print set, and customer envelope have checked, put them in the software box and seal it.
- 13.12 Check the contents of the T. & I. envelope for:
 - a. The remaining Key Sheets
 - b. ECO Status Sheets (pink copies)
 - c. Waiver if needed (yellow copy)
 - d. Blanket waiver if needed.
- 13.13 Before line #10 on the T. & I. envelope is signed off, an authorized person from computer administration must sign his name and the date across the side of the T. & I. envelope
- 13.14 Basic PDP11/05 destined for in-house users (CSS, TPL, System Integration) will not have lines 9 and 10 signed off on the T. & I. envelope.
 - 13.14.1 Other items not applicable to the in-house machine include: 13.6, 13.7.1.3, 13.7.1.4, 13.8 and 13.9.1.3.
- 13.15 The final acceptance line on the DEC 101 cover sheet (line #10) will only be signed off if all items in this procedure have been accepted for formally waivered (DEC Form 12-1026).
- 13.16 Failure Determination
 - 13.16.1 Any unit which fails any of the requirements of this section will be classified defective and returned to production for the correction of any deficiencies.

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TITLE ACCEPTANCE PROCEDURE FOR BASIC PDP11/05

- 13.16.2 All units resubmitted for final inspection after the correction of a deficiency may be recycle through the entire inspection procedure or any portion thereof at the discretion of the Q.C. supervisor provided no one (1) step of section 13 is omitted from any unit.
- 14.0 PDP11/05 RETURNED FROM CRATING (SHIPPING)
 - 14.1 Any PDP11/05 that is returned from crating (shipping) need only be submitted to 13.0 provided the PDP11/05 remains sealed in its shipping container. The PDP11/05 need not be submitted to 13.4 and 13.5.

15.0 VALIDATION OF SOFTWARE

- 15.1 10% of all software kits will be opened and the contents of the kits will be checked.
- 15.2 100% of the software kits will have their labels checked for correct revision levels.
- 15.3 If any software fails 15.1 and/or 15.2 the complete lot of software will be returned to the program library.
- 15.4 Assure that all documentation being shipped is at the same rev. as the hardware.

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ENGINEERING SPECIFICATION digital **CONTINUATION SHEET** ACCEPTANCE PROCEDURE FOR BASIC PDP11/05 DUMP DIRECTORY END ADD DESC'N FRG # TITLE Ø142Ø2 øøøøøø DØAAØ Tl øøøøø1 Ø04326 DØBAØ T2øøøøø2 ØØ5512 DØCAØ т3 ggggg3 Ø1636Ø DØDAØ T4øøøøø4 Ø1Ø546 DØEAØ Т5 øøøøø5 Ø17214 DØFAØ Т6 Ø1364Ø DØGAØ т7 øøøøø6 Ø13424 DØHAØ **BT** øøøøø7 Ø14116 DØIAØ Т9 øøøø1ø ØØ7462 DØJAØ TIØ øøøø11 ØØ711Ø DØKAØ øøøø12 Tll Ø157Ø6 øøøø13 DØLAØ **T12** DØMAØ øøøø14 ØØ3234 **T13** øøøø15 øø7566 DØNCØ **T14** Ø16476 DØOB2 T15 øøøø16 øøøø17 Ø15514 DØQE2 **T17** øøø2øø øøøø2ø DUMM21 LDR øøøø21 øøø2øø Dlaaø ADR UP øøøø22 øøø2øø DlBAØ ADR DN øø14øø ZMMCAØ øøøø23 N/D AD øøøø24 ØØØ652 ZMMDAØ BASICP øøøø25 ØØØ636 ZMMEA1 MC1SØS øøø75ø øøøø26 ZMMFAØ l'S SU øøøø27 ØØ1316 ZMMGB1 WCN'S øøøø3ø øøø542 ZMMHAØ C/HTNG ØØØ716 øøøø31 ZMMIAØ RANDAT øøøø32 ØØØ426 ZMMKIØ ADR DN øøøø33 ØØ3Ø46 ZQMAA1 **MEMEXR** øøøø34 ØØ1646 CMSAAØ MEMPAR øøøø35 øøø2øø **CMSBAØ** GALOMP øøøø36 ØØ66Ø6 ZQMBAl EXTMEM øøøø37 øøø2øø LDR LDR øøøø41 øøø2øø DUMMY LDR øøøø42 ØØ3132 ZTMBØØ TM-9TK ØØØØ43 ØØ3252 ZTMCØØ TM-7TK øøøø44 ØØ254Ø CKBAAØ SXT øøøø45 ØØ3562 CKBBAØ SOB øøøø46 ØØ7366 CKBCAØ XOR øøøø47 ØØ7234 CKBDAØ MARK øøøø5ø ØØ2174 CKBEAØ RTT øøøø51 ØØ1712 CKBFAØ STKLIM øøøø52 ØØ1424 CKBGAØ SPL øøøø53 ØØ374Ø CKBHAØ REGSET øøøø54 Ø1355Ø CKBIAØ ASH ددوهوه CKBJAØ **ASHC** Ø1466Ø TABLE #3 SIZE CODE NUMBER REV

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	12K			4,67	0	0	0	1	0
	16K			,	0	. 0	0	1	1
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POWER SUPPLY VOLTAGE +5V +15V -15V - Was 19 (1982)

ENGINEERING SPECIFICATION CONTINUATION SHEET TITLE ACCEPTANCE PROCEDURE FOR BASIC POFILO5 MEASUREMENT OF POWER SUPPLY OUTPUT POWER SUPPLY RED METER BLACK METER VOLTAGE LIMITS LEAD LEAD 5.00 - 5.10V Red crimp connector Black crimp on logic block. connector on logic block. 14.75 - 15.25 Orange term point Black crimp connector on logic connector on block. logic block. Black crimp 14.75 - 15.25 Blue crimp connector on logic block. connector on logic block. roftware will, to the 15.4 Pagest ATTACHMENT #1 SIZE CODE SP NUMBER 11/Ø5-Ø-6 REV DEC FORM NO 16-1022

DEC FORM NO 16-1022 DRA 108

NUMBER 11/Ø5-Ø-6

SIZE CODE

SP

REV

DRA 108

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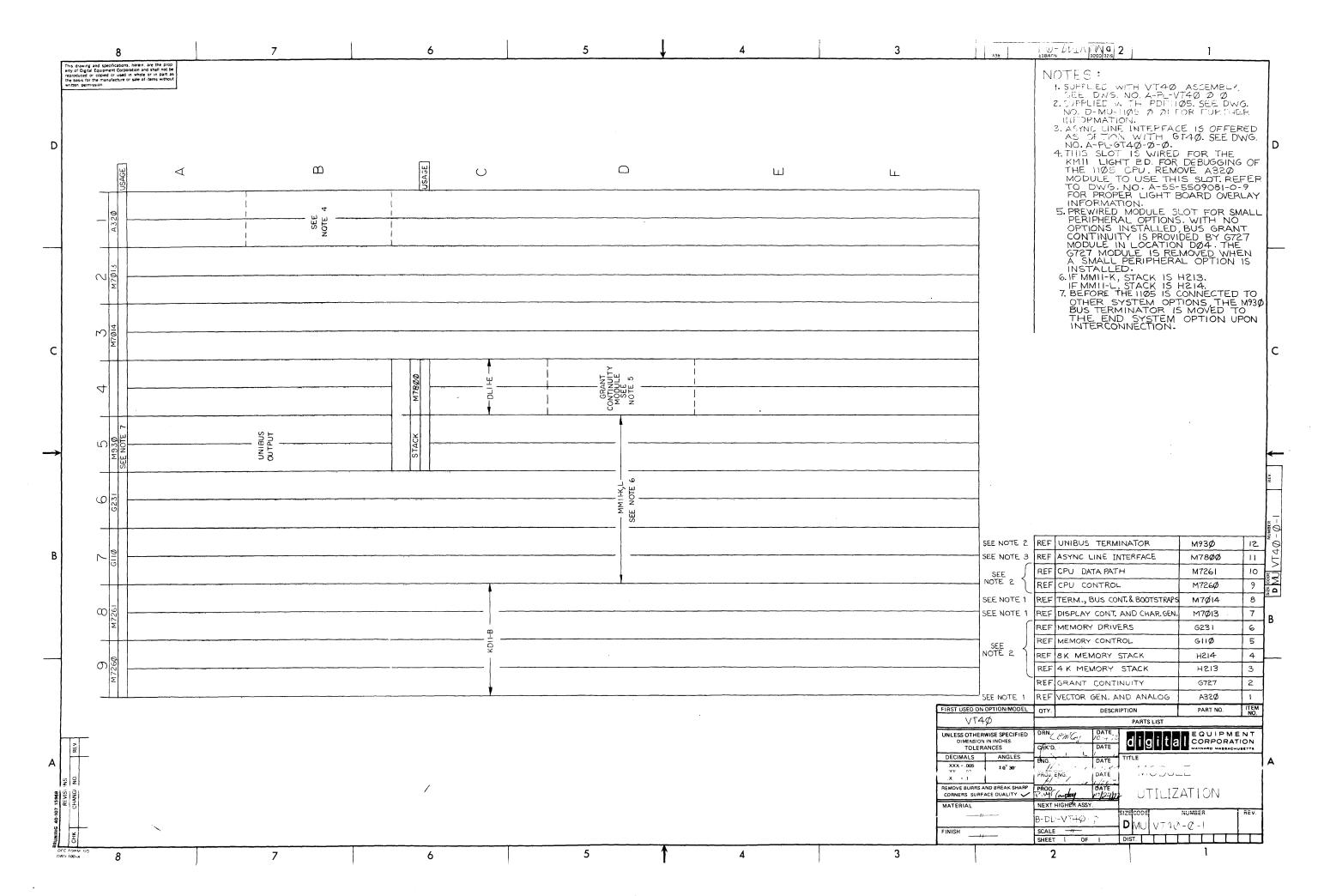
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DEC FORM NO 16-1022 SHEET 21 OF 23

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

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2.	Mechanical Inspection									
3.	Module Inspection								:	,
4.	Power and Ground Check									
5.	Voltage Variation									
6.	Quick Verify									
7.	Burn-in Start Burn-in Recycle l									
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8.	Console Test, Key & Lock Test									
9.	Paper Tape Read									
10.	Unibus Test									
Ll.	Electrical Acceptance									
L2.	50 Cycle Conversion			,						
L3.	Final Inspection			,	·					
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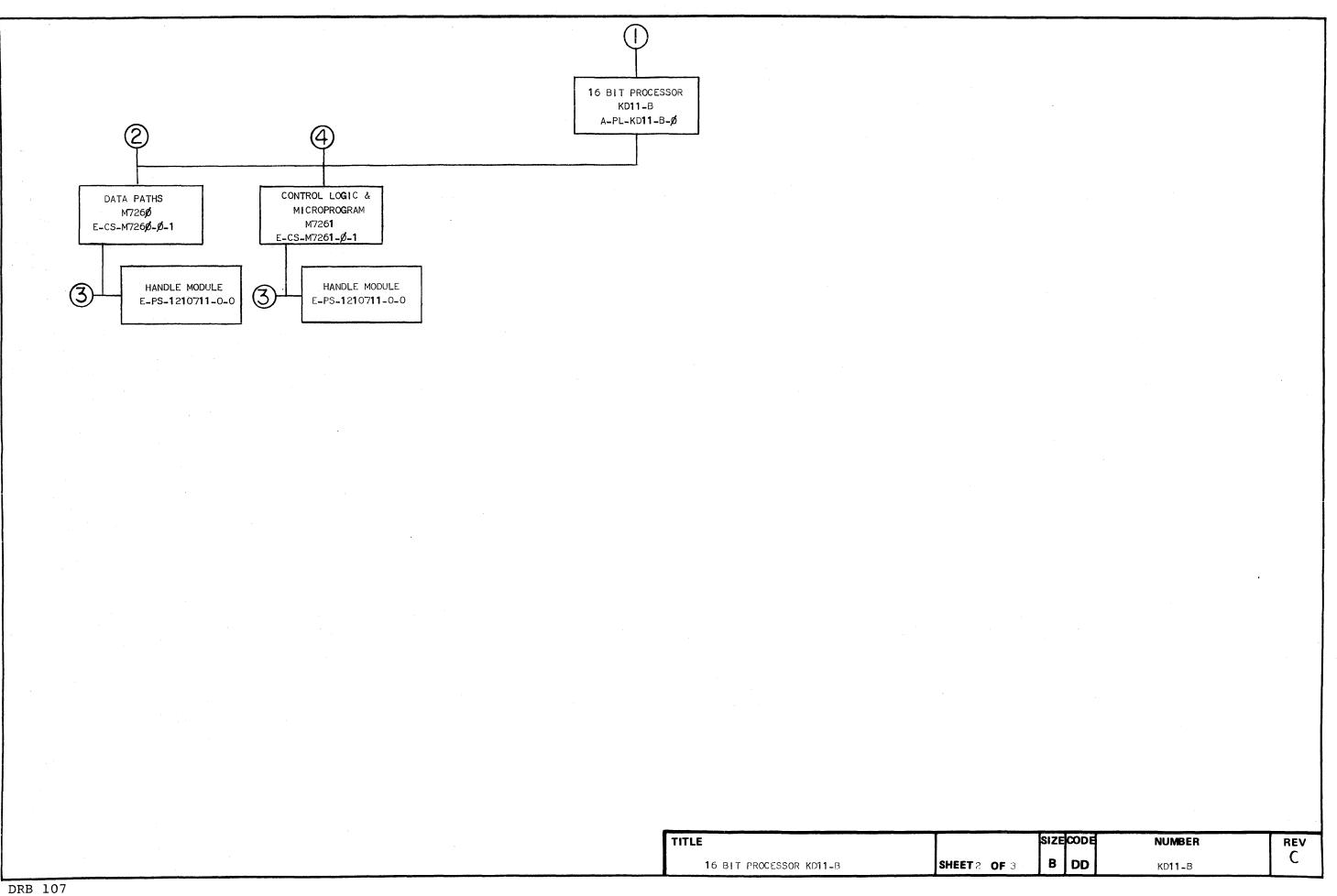
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NOTES ON NOTATION:
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1. MICROROUTINES BEGIN WITH A COMMENT THE FIRST CHARACTER OF WHICH IS '**!.

2. ALL OTHER COMMENTS BEGIN WITH '/'.

3. RENJ REFERRS SCRATCH PAD REGISTER N. RETJ IS ALSO REFERRED TO AS 'PC'.

4. RESJ REFERRS TO THAT REGISTER SPECIFIED IN THE SOURCE PORTION OF THE CURRENT INST'. (IR<11)9>)'. LIKEWISE, REDJ REFERRS TO THAT REG SPECIFIED IN THE DESTINATION PORTION OF THE CURRENT INST, (IR<2:0>),

5. KENJ REFERRS TO THAT LOCATION OF THE CONSTANTS CHIP CONTAINING THE CONSTANT N'.
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LOC NXT . INSTRUCTION FETCH
762
         Ø53
                   F-1 BA-PCI DATI
         365
                   F = 2
                               8+PC+2
305
         364
                   F = 3
                               PC+BI CKOFF
                               BITH-UNIBUS DATA
                   F=4 B, IR*UNIBUS DATA
F=5 B B SEX; BUT IR DECODE

/ IF DOUBLE OP INST GOTO $0=1 THRU ST=1 DEPENDING ON SOURCE MODE

/ IF SINGLE OP INST GOTO D0=1 THRU D7=1 DEPENDING ON DEST MODE (INCLUDING JSR)

/ IF BRANCH, CHANGE PC GOTO B=1

/ IF BRANCH, PC UNCHANGED GOTO B2=2

/ IF CLEAR OR SET COND CODE(S) GOTO CCM=1

/ IF INST=RTI GOTO R2=1
         001
                   / IF INST=RTI GOTO R2=1
/ IF INST=RTI GOTO W=1
/ IF INST=WAIT GOTO H=1
/ IF INST=RESET GOTO RST=1
                   / IF INST#EMT GOTO ET#1
/ IF INST#BREAKPOINT TRAP GOTO BT#1
                   / IF INSTRICT GOTO ITEL
                       IF INSTETRAP GOTO THE
                    / IF RESERVED INST (NONE OF THE ABOVE) GOTO RT#1
```

```
L-MP KD-118-1MICOPROGRAM FLOW REV. A
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27-JUL-72

PAGE 3 OF 22

```
LOC NXT . SOURCE MODE Ø (REGISTER), GET SOURCE DATA
            / GET TO SØ#1 FROM F#5 VIA BUT IR DECODE IR<11:9>##
            SC-1 BAR(S); BUT BYTE

/ IF BYTE INST GOTO SBE-1 (MUST BE EVEN BYTE)
SC-2 R[10]+B; BUT DESTINATION
201
      007
007
      001
            / IF IR<5:3> =0 GOTO D0+1
                                        01=1
                              = 2
                                        02=1
                              = 3
                                        D3=1
                              = 4
                                        D4=1
                              = 5
                                        05-1
                              = 6
                                        D6=1
                                        D7=1
```

```
LOC NXT = SOURCE MODE 1 (REG, DEFERRED) GET SOURCE DATA

/ SET TO S1=1 FROM F=5 VIA BUT IR DECODE IR<1119>
203 244 S1-1 BA-RESJ; DATI; CKOFF; ALBYT

/ SET TO S1=2 FROM S2=3 VIA GOTO

" S3=5 "

S6=5 "
244 007 S1-2 B+UNIBUS DATA; BUT BYTE; GOTO S0=2

/ IF ODD BYTE GOTO SB0=1

/ IF EVEN BYTE GOTO SBE=1

/ IF NOT BYTE FALL THROUGH TO S0=2
```

```
LOC NXT * SOURCE MODE 2 (AUTO=INC.) GET SOURCE DATA
/ (ET TO S2=1 FROM F=5 VIA BUT IR DECODE IR<1119>#2
205 301 S2=1 BA+RESJ; DATII ALBYT
301 014 S2=2 B*RESJ+1+BYTE; BAR
/ GET TO S2=3 FROM S4=1 VIA GOTO
014 244 52-3 RESJ*B; CKOFF; GOTO S1=2
```

```
LOC NXT *SOURCE MODE 3 (AUTO-INC DEFERRED) GET SOURCE DATA / GET TO S3=1 FROM F=5 VIA BUT IR DECODE IR<11(9)=3
207 016 53=1 BA+RESJ; DATI (MUST BE AN EVEN ADDRESS HERE)
016 017 S3+2 B+RESJ+2
```

```
/ GET TO $3m3 FROM $5m1 VIA GOTO
   017 134 S343 R[S]+B; CKOFF
/ GET TO $344 FROM S745 VIA GOTO
134 274 5344 BOUNTBUS DATA
274 244 5345 BAOB! DATE: CKOFF! GDTO S142! ALBYT
and the second of the second of the
   LOC NXT * SOURCE MODE 4 (AUTO-DEC) GET SOURCE DATA
    / GET TO $4-1 FROM F45 VIA BUT IR DECODE IR<11:9>=4
211 Ø14 $4-1 B.BA-RESJ=1-8YTE.BAR; DATI; ENABOVER; GOTO $2-3; AUBYT
                           LOC NXT * SOURCE MODE 5 (AUTO-DEC DEFERRED) GET SOURCE DATA
  / GET TO $5-1 FROM F#5 VIA BUT IR DECODE IR<1119>=5
213 017 55-1 B.BARRESJ-21 DATI(MUST BE AN EVEN ADDRESS HERE); ENABOVER; GOTO $3-3
    LOC NXT * SOURCE MODE 6 (INDEXED) GET SOURCE DATA
                            / GET TO SOUT FROM FUE VIA BUT IR DECODE IRC1119>=6
Soul Barpe; Dati(Must be even address here)
                Ø25
                             56=2 B#PC+2
    Ø25 Ø26
    026 027 S6=3 PC+B; CKOFF
027 030 S6=4 B+UNIBUS DATA
030 244 S6=5 BA+B+R[$]; DATI; CKOFF; GOTO $1=2; ALBYT
    LOC NXT * SOURCE MODE 7 (INDEXED DEFERRED) GET SOURCE DATA
                             / GET TO $7m1 FROM F#5 VIA BUT IR DECODE IR<11/9>#7
57#1 BAMPG; DATI(MUST BE AN EVEN ADDRESS HERE)
    032 033 S7=2 B+PC+2
033 034 S7=3 PC+B; CKOFF
034 035 S7=4 B+UNIBUS DATA
     035 134 S7-5 BA+B+RES31 DATI(MUST BE AN EVEN ADDRES) | CKOFF; GOTO S3-4
                                                               K-MP- RD=148-MICOPROGRAM FLOW REV, A
                                                                                                                                                                                                                            PAGE 5 OF 22
                                                                                                                                                               27÷JUL•72
     LOC NXT . SOURCE BYTE ODD
                               / GETE TO SBO-1 FROM $1=2 VIA BUT BYTE (BYTE INST, AND SOURCE DATA ODD ADDR)
                             SBOWL SHIFT B RIGHT! F SHIFT
SBOWL SHIFT B RIGHT! F SHIFT
SBOWL SHIFT B RIGHT! F SHIFT
     346 324
     324
     340 361
                              SBOR4 SHIFT B RIGHT! F SHIFT
                             SBO=5 SHIFT B RIGHT! F SHIFT
SBO=6 SHFIT B RIGHT! F SHIFT
     361 050
     Ø5Ø Ø2Ø
     020 052
                             SBO-7 SHIFT B RIGHT! F SHIFT
     Ø52 Ø47
                             SBO-8 SHIFT B RIGHT! GOTO SBE-1

    All the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
     LOC NXT * SOURCE ÉVEN BYTE
    / GET TO SBE-1 FROM SBOWS VIA GOTO
/ GET TO SBE-1 FROM S1=2 VIA BUT BYTE, (BYTE INST AND SOURCE DATA EVEN ADDR)
/ GET TO SBE-1 FROM S0=1 VIA BUT BYTE, (BYTE INST.)

047 001 SBE-1 R[10]+B SEX; BUT DESTINATION
                              / IF IF (5:3> =0 GOTO 00-1
                                                                                    #1 "
#2 "
                                                                                                         01-1
                                                                                                         02-1
                                                                                                        D3=1
                                                                                                         D4-1
                                                                                     ₽5
                                                                                             **
                                                                                                         05-1
                                                                                      LOC NXT + DEST, MODE Ø (REGISTER), GET DEST DATA, DP, AND REPLACE
/ GET TO DØ=1 FROM SØ=2 VIA BUT DESTINATION (IR<5:3>=0)
/ GET TO DØ=1 FROM SØ=2 VIA BUT DESTINATION (IR<5:3>=0)
```

```
OCT TO DOWN FROM SOWE VIA BUT DESTINATION (IRCS:5330)

GET TO DOWN FROM SOWE VIA BUT DESTINATION (IRCS:5330)

101 154 DOWN BEREDJ: BUT MOVE

IF INSTAMOVE BAR (OTHER THAN MOVE) AND BYTE GOTO DOWN:

IF INSTAMOVE AND BYTE GOTO MOWN

IF INSTAMOVE AND BYTE BAR GOTO DOWNSA

IF INSTAMOVE BAR AND BYTE BAR PALL THROUGH TO DOWN (IF INSTAMOVE BAR AND BYTE BAR PALL THROUGH TO DOWN (IF INSTAMOVE BAR AND BYTE BAR PALL THROUGH TO DOWN (IF INSTAMOVE BAR AND BYTE BAR PALL THROUGH TO DOWN (IF INSTAMOVE BAR AND BYTE BAR PALL THROUGH TO DOWN (IF INSTAMOVE BAR AND BYTE BAR PALL THROUGH TO DOWN (IF INSTAMOVE BOTO SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET O
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162 332 D4-3 BeR[10] OF B; BUT NONMOD
               / SEE DESCRIPTION OF AUXILLARY ALU CONTROL (AUX CONTROL)
/ FOR MORE DETAILS ON WHAT /OP/ ACCOMPLISHES
/ THERE EXISTS A DØ35A WHICH IS IDENTICAL TO DØ#3 EXCEPT LOC#155
/ GET TO DØ#3A FROM SB1#8 VIA GOTO
/ TE NONMOD GOTO 82=2 (BUT SERVICE)
                / IF NOMMOD GOTO B2+2 (BUT SERVICE)
/ IF NOT NOMMOD FALL THROUGH TO DZ=4
/ GET TO DZ=4 FROM R1=6 VIA GOTO
332 040 DU=4 R[D]=B; BUT SERVICE
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
/ IF STACK OVERFLOW GOTO ERTEA
                / IF POWERFAIL GOTO PF=1
                / IF BR7 GOTO BG#1
/ IF BR6 GOTO BG#1
/ IF INTERNAL LINE CLOCK GOTO LC#1
                / IF BR5 GDTO BG=1
/ IF BR4 GDTO BG=1
/ IF UATR RECEIVE GOTO URTR
/ IF UATR TRANSMIT GOTO URTX
                / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
LOC NXT * DEST, MODE 1 (REG, DEFERRED) GET DEST DATA, OF, AND REPLACE
               / GET TO DI#1 FROM $0=2 VIA BUT DESTINATION (IR<5|3>#1)
/ GET TO DI#1 FROM $BE=1 VIA BUT DESTINATION (IR<5|3>#1)
DI#1 B_BA*REDJ_DATIP_BUT JSRMP; ALBT_CKOFF
                / NOTE DATA IN PAUSE HERE
                / IF INST#JMP GOTO JI#1
/ IF INST#JMP GOTO JI#1
/ IF INST#JMP GOTO J2#1
/ IF INST NOT JMP OR JSR FALL THROUGH TO D1#2
/ GET DO D1#2 FROM D2#3 VIA GOTO
/ GET TO D1#2 FROM D3#5 VIA GOTO
200 210 D1=2 FROM D6=5 VIA GOTO
200 210 D1=2 B+UNIBUS DATA; BUT BYTE

/ IF ODD BYTE GOTO D0=4

/ IF EVEN BYTE GO TO DE=1

/ IF NOT BYTE FALL THROUGH TO D1=3
210 143 D1=3 RC1113+B; BUT UNARY
                / IF INSTESHAB GOTO 882-1
                IF INSTRUCTHER UNARY (CLR, COM, INC, DEC, NEG, ADC, SBC, TST, ROR, ROL, ASR, ASL) GOTO U2#1

/ GET TO D1#4 FROM U2#1 VIA GOTO

/ GET TO D1#4 FROM SB2#8 VIA GOTO
                D144 BERI10J OP BI BUT NONMOD

3EE DESCRIPTION OF AUXILLARY ALU CONTROL (AUX CONROL)

FOR MORE DETAILS ON WHAT FOP ACCOMPLISHES
                                        K-MP-KD-11-8-IMICOPROGRAM FLOW REV.B 5-SEP-72
                                                                                                                                             PAGE 7 OF 22
                   / IF NONMOD GOTO 82-2 (BUT SERVICE)
                 334 065
    065 305 11-6 DRIVERS+R; GOTO 82-2 (BUT SERVICE)
           NYT * DEST MODE 2 (AUTO-INC) GET DEST DATA, OP AND REPLACE
                   / GET TO C2-1 FROM SO-2 VIA BUT DESTINATION (IR<5:3>=2)
                   / GET TU D2-1 FRUM SBE-1 VIA BUT DESTINATION (IR<5;3>=2)
C2-1 RA+RCDJ; DATIP; ALBYT
                    / NOTE DATA IN PAUSE HERE
                  D2-2 P+R[D]+1+BYTE,BAR
/ GET TO D2-3 FROM D4-1 VIA GUTD
   331 341
   341 200
                   02-3 REDJ+B; AUT JSRMP; GOTO D1-2; CKOFF / IF INST=JMP GOTO J1-1
                      IF INSTERSE COTO 12-1
                   / IF INST NOT JMP OR JSR FALL THROUGH TO D1#2
   LOC NXT * DEST MODE 3 (AUTO-INC DEFERRED) GET DEST DATA, OP AND REPLACE
                   / GET TO D3-1 FROM SO-2 VIA BUT DESDTINATION (IR<5:3>=3)
                   / GET TO D3-1 FROM SBE-1 VIA BUT DESTINATION (IR (5:3>=3)
   107 160
                  DS-1 RA+RED]; DATI
DS-2 R+RED]+2
   160
           070
          / GET TO D3-3 FROM D5-1 VIA GOTO 071 03-3 REDJ+B; CKOFF
   070
                   / GET TO D3-4 FROM D7-5 VIA GOTO
                                                                                                                                                                   )
                  DS-4 ROUNIBUS DATA
   072 200 DS-D BAHB; DATIP; BUT JSRMP; GOTO D1-2; ALBYT; CKOFF
                   / NOTE DATA IN PAUSE HERE
                   / IF INST=JMP GDTD J1-1
                   / IF INST=JSR GOTO J2-1
                   / IF INST NOT JMP OR JSR FALL THROUGH TO D1-2
```

LDC NXT # JEST MODE 4(AUTO-DEC) GET DEST DATA, OP AND REPLACE

/ LET TO S4-1 FROM SO-2 VIA BUT DESTINATION (IR<5:3>=4)
/ LET TO S4-1 FROM SBE-1 VIA BUT DESTINATION (IR<5:3>=4)
111 341 34-1 S, RA+REGJ+1-8YTE, PAR; DATIP; ENABOVER; GOTO D2+3; ALBYT

```
LOC NXT * DEST MODE 5 (AUTO-DEC DEFERRED) GET DEST DATA, QP, AND REPLACE
/ GET TO D5=1 PROM SØ=2 VIA BUT DESTINATION (IR<5;3>=5)
/ GET TO D5=1 FROM SBE=1 VIA BUT DESTINATION (IR<5;3>=6)
113 Ø7Ø D5=1 B2BA+REDJ=2; DATI; ENABOVER; GOTO D3=3
LOC NXT * DEST MODE 6 (INDEXED) GET DTA.OP, AND REPLACE
                    / GET TO D6=1 FROM SO=2 VIA BUT DESTINATION (IR45:3>=6)
/ GET TO U6=1 FROM SBE=1 VIA BUT DESTINATION (IR45:2>=6)
                    D6-1 BARPCI DATI
D6-2 BAPC+2
         075
 075
         077
 Ø77 Ø57
                    D6-3 PC+B1 CKOFF
                    D6-4 B-UNIBUS DATA
D6-5 B.BA-6B+RCD3! DATIP! BUT JSRMP! GOTO D1#2! ALBYT! CKOFF
 957
          300
 300 200
                    / NOTE DATA IN PUASE HERE
/ IF INST#JMP GOTQ JI=1
/ IF INST#JSR GQTQ J2=1
/ IF INST#JSR GQTQ J2=1
/ IF INST NQT JMP OR JSR FALL THRQUGH TO D1=2
 LOC NXT * DEST MODE 7 (INDEXED DEFERRED) GET DEST DATA, OP, AND REPLACE
                     / GET TO D7#1 FROM SØ=2 VIA BUT DESTINATION (IRS$13>#7)
                     / GET TO 07-1 FROM SBE-1 VIA BUT DESTINATION (IR4513>=7)
                    D7-1
                              BAMPC: DATI
 117
         310
 310
         104
                    D7-2
                               B+PC+2
                    D7-3 PC+B1 CKOFP
 104 320
                                BAUNIBUS DATA
 320
         106
                    07-4
                              BA+B+REDJI DATII CKOFFI GOTO D3=4
 106
          071
                    D7-5
 LOC NXT . DESTINATION MODE 0. BYTE
                    / BET TO 080-1 FROM DO-1 VIA BUT BYTE (BYTE INST AND MOVE BAR)
DB0-1 R[11],8+8 SEX; BUT UNARY
                     ✓ IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR,COM,INC,DEG,NEG,AGC,SBC,TST,ROR,ROL,ASR,ASL) GOTO U3+1
                                                K-MP- KD-118-MICOPROGRAM FLOW REV. A
                                                                                                                                          27ーリロレーフ2
                                                                                                                                                                               PAGE 9 OF 22
                     / IF NOT UNARY FALL THROUGH TO DB#-2
 164 304 DB0=2 B+R[10] OP B; BUT NONMOD
/ SEE DESCRIPTION OF AUXILLARY ALU CONROL (AUX CONTROL)
/ FOR MORE DETAILS ON WHAT /OP! ACCOMPLISHES
 / FUN TUNE DETAILS ON WHAT FOR ACCOMPLISH
/ IF NONMOD GOTO B2=2 (SERVISE)
/ IF NOT NONMOD FALL THRU TO DBر3

304 040 DBر3 R[D]<710>±8] BUT SERVICE; GOTO F=1
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
/ IF STACK OVERFLOW GOTO ERT!A
/ IF POWER FAIL GOTO PF=1
/ IF BR7 GOTO BG±1
                     / IF BR7 GOTO BG#1
/ IF BR6 GOTO BG#1
/ IF INTERNAL LINE CLOCK GOTO LC#1
/ IF BR7 GOTO BG#1
/ IF BR4 GOTO BG#1
                     / IF WART RECEIVE GOTO WRTR / IF WART TRANSMIT GOTO WRTX
                     / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
 LOC NXT . DESTINATION ODD BYTE
                    OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

OGGITATION ODD BITE

ODD BITT BRIGHT; F SHIFT

 270
  123
           124
           125
  124
  125
           126
 126
           127
  127
           130
                                SHIFT B RIGHT! F SHIFT
 130
           131
                    00.7
                                SHIFT B RIGHT
  131
           132
                     DQ#8
                     00.9
  132
           145
                                RC113,8+8 SEX! BUT UNARY
132 145 DOGS RE113.8+8 SEX; BUT UNARY

/ IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR.COM. NC.DEC.NEG.ADC.SBC.TST.ROR.ROL.ASR.ASL) GOTO U4-1

/ IF NOT UNARY FALL THROUGH TO DO-10

165 342 DOG-10 8-R103 DO B; BUT NONMOD

/ SEE DESCRIPTION OF AUXILLARY ALU CONTROL (AUX CONROL)

/ FOR MORE DETAILS ON WHAT /OP/ ACCOMPLISHES

/ IF NONMOD GOTO 82-2 (BUT SERVICE)

/ IF NOT NONMOD FALL THROUGH TO DO-11

342 135 DO-11 SHIFT B LEFT; F SHIFT

135 136 DO-12 SHIFT B LEFT; F SHIFT

137 140 DO-13 SHIFT B LEFT; F SHIFT

140 DO-15 SHIFT B LEFT; P SHIFT

141 DO-15 SHIFT B LEFT; P SHIFT
                     DO-15 SHIFT B LEFT! P SHIFT
 140
          141
                    DOW16 SHIFT B LEFT! F SHIFT
DOW17 SHIFT B LEFT! P SHIFT
 141
           142
           143
```

DO-18 SHIFT B LEFT! DATO! CKOFF! GOTO D1m6; ALBYT

```
LOC NXT * DESTINATION EVEN BYTE
               / GET TO DE-1 FROM Di-2 VIA BUT BYTE (BYTE INST AND EVEN ADDR)
               DE=1 R[11]#B SEX; GOTO D1=4( BUT UNARY / CLR.COM, INC.DEC, ADC, SBC, TST, ROR, ASR, ASL) GOTO U5=1
250 163
               / IF NOT UNARY FALL THROUGH TO D1=4
LOC NXT * UNARY OPERATORS GET SINGLE OPERAND IN B AND R[10]
               / CKOFF IN EACH OF THE FOLLOWING (U101, U2=1, U3=1, U4=1, AND U501)
/ GIVES THE AUX CONTROL SUFFICIENT TIME TO DO ITS THING;
/ THAT IS.., REMAIN IN CURRENT STATE (MICRO STEP) FOR TWO
/ PROCESSOR CKOCK PERIODS SO THAT THE CONDITION CODE LOGIC
/ HAS SUFFICIENT TIME TO SETTLE;
/ GET TO U101 FROM D0=2 VIA BUT UNARY (INSTECLR, COM, INC. DEC, NEG, ADC, SBC, TST, ROR, ROL, ASR, ASL)
352 162 U1-1 R[10]+B; CKOFF; GOTO D0=3
               / SET TO U2=1 FROM DI=3 VIA BUT UNARY (INSTACLR, COM, ,, , ASL) SEE U1=1 U2=1 R[10]+B; CKOFF GOTO DI=4
353 163
                / SET TO U3-1 FROM DBO-1 VIA BUT UNARY (INSTECLR, COM; ; ; ASL) SEE U1-1
354 164
               U3-1 R[10]+B; CKOFF; GOTO DB#=2
                 GET TO U4#1 FROM DO#9 VIA BUT UNARY (INSTECLA, COM, '. ', ASL) SEE U1=1
               U4=1 R[10]+B; CKOFF; GOTO DO=10

/ GET TO U5=1 FROM DE=1 VIA BUT UNARY (INSTECLR, COM, , , ASL) SEE U1=1
355 165
373 163 U5-1 R[10]+B; CKOFF; GOTO D1-4
LOC NXT . HOVB INST
                / SET TO MB # 0 FROM DO = 1 VIA BUT MOVE (INSTEMOVE AND BYTE)
                       CKOFF
               / SKOFF IN MB=Ø GIVES THE AUX CONTROL SUFFICIENT TIME TO DO ITS THING, / THAT IS., REMAIN IN CURRENT STATE (MICRO STEP) FOR TWO / PROCESSOR CLOCK PERIODS SO THAT THE CONDITION CODE LOGIC
                AS SUFFICIENT TIME TO SETTLE'.
               MB=1 B=R[10]

MB=2 R[0]=B SEX; BUT SERVICE

PRIORITIES ARE LISTED HIGHEST TO LOWEST

IF T BIT TRAP GOTO BT=1

IF STACK OVERFLOW GOTO ERTIA

F POWER FAIL GOTO PF=1
240 1,52
152 040
                                    K-MP- KD-11B/MICOPROGRAM FLOW REV. A 27-JUL-72
                                                                                                                                         PAGE 11 OF 22
                / F BR7 GOTO BG#1
                / IF BR6 GOTO BG#1
                / IF INTERNAL LINE CLOCK GOTO LC-1
/ IF BR5 GOTO BG-1
                / IF BG4 GOTO BG#1
                / IF WART RECEIVE GOTO URTR
                / IF WART TRANSMIT GOTO URTX
                / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
LOC NXT . BRANCH, CHANGE PC
015 147 Be1 SHIFT B LEFT
147 146 Be2 BePC+B
        040
               8=3
                         PC+B! BUT SERVICE
               / PRIORITIES ARE LISTED HIGHEST TO LOWEST

/ IF T BIT TRAP GOTO BT=1

/ IF STACK OVERFLOW GOTO ERT1A
                   TE POWER FAIL GOTO PF=1
                   IF BR7 GOTO BG#1
                               GOTO BG=1
               / IF INTERNAL LINE CLOCK GOT LC=1
/ IF BR5 GOTO BG=1
/ IF BR4 GOTO BG=1
/ IF UART RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOR HOTO H-1
               / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
LOC NXT * CONDITION CODE MASK (FOR BOTH SET AND CLEAR)
151 350 CCM=1 B&B AND K[17]
350 112 CCM=2 BUT DEST
/ IF INST= SET, GO TO SC=1
                / IF INST# CLEAR, GOTO CO#1
```

LOC NXT * CLEAR CONDITION CODES

112 040 CC-1 PSW-PSW AND (B'BAR); BUT SERVICE / TH'S EFFECTIVELY CLEARS THOSE BITS OF THE PSW WHICH ARE SET

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```
/ IN THE B REG. B, BAR IS B REGISTER COMPLEMENTED. 
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST 
/ IF T BIT BRAP GOTO BT+1 
/ IF STACK OVERFLOW GOTO ERTIA
                      IF POWER FAIL GOTO PF=1
                      / IF BR7 GOTO BG-1
/ IF BR6 GOTO BG-1
                      / IF INTERNAL LINE CLOCK GOTO LC+1
/ IF BR5 GOTO BG+1
/ IF BR4 GOTO BG+1
                      ✓ IF UART RECEIVE GOTO URTR
✓ IF UART TRNASMIT GOTO URTX
                      / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
 LOC NXT * SET CONDITION CODES
116 040 SC=1 PSW+PSW OR B! BUT SERVICE

/ PRIORITIES ARE LISTED HIGHEST TO LOWEST

/ IF T BIT TRAP GOTO BT#1

/ IF STACK OVERFLOW GOTO ERTIA

/ IF BR7 GOTO BG#1

/ IF BR6 GOTO BG#1

/ IF BR6 GOTO BG#1
                      / IF INTERNAL LINE CLOCK GOTO LCG1
/ IF BR5 GOTO BGG1
/ IF BR4 GOTO BGG1
                      / IF WART RECEIVE GOTO WRTR / IF WART TRANSMIT GOTO WRTX
                      / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
 LOC NXT * SWAB, MODE Ø
                      / GET TO SB1=1 FROM DØ=2 VIA BUT UNARY (INSTESMAB AND MODE=Ø)
                     / ROTATE LEFT ACCOMPLISHED VIA ASR
SBI=1 ROTATE B LEFT; F SHIFT
SBI=2 ROTATE B LEFT; F SHIFT
SBI=3 ROTATE B LEFT; F SHIFT
SBI=4 ROTATE B LEFT; F SHIFT
SBI=4 ROTATE B LEFT; F SHIFT
 172 173
 173
          174
 174
           144
                    SB1+5 ROTATE B LEFT; F SHIFT
SB1+6 ROTATE B LEFT; F SHIFT
SB1+7 ROTATE B LEFT; F SHIFT
 144
           176
 176
           177
 177
           006
 006 155 SBIEB ROTATE B LEFT! GOTO DOESA
                                                       K-MP KD=118 MICOPROGRAM FLOW REV. A
                                                                                                                                                     27-106-72
 LOC NXT * SWAB, NOT MODE Ø
                     / GET TO S82=1 FROM D1=3 VIA BUT UNARY (INST#SWAB)
/ ROTATE LEFT ACCOMPLISHED VIA ASR
S82=1 ROTATE B LEFT! F SHIFT
S82=2 ROTATE B LEFT! F SHIFT
S82=3 ROTATE B LEFT! F SHIFT
S82=4 ROTATE B LEFT! F SHIFT
S82=4 ROTATE B LEFT! F SHIFT
 167
 012 220
```

```
SB2=6 ROTATE B LEFT! F SHIFT
SB2=7 ROTATE B LEFT! F SHIFT
031
             330
330 163
                         SB2#8 ROTATE B LEFT! GOTO D1#4
LOC NXT + JMP
                          / GET TO J1=1 PROM DI=1 VIA BUT JSRMP (INSTEJMP)
/ GET TO J1=1 FROM D2=3 VIA BUT JSRMP (INSTEJMP)
/ GET TO J1=1 FROM D3=5 VIA BUT JSRMP (INSTEJMP)
/ GET TO J1=1 FROM D6=5 VIA BUT JSRMP (INSTEJMP)
                          J141 NOP
204
                          / J1=1 MUST BE A NOP BECAUSE FOLLOWING A GROFF, THE AMX WILL / BE FORCED TO TAKE DATA FROM THE UNIBUS, J1=2 PC+BJ BUT SERVICE
260 040
                         / PRIORITIES ARE LISTED HIGHEST TO LOWEST / IF T BIT TRAP GOTO BT=1 / IF STACK QVERFLOW GOTO ERTIA / IF POWER FAIL GOTO PF=1
                         / IF MOWER FAIL GUTU FF##
/ IF BR7 GOTO BG#1
/ IF BR6 GOTO BG#1
/ IF INTERNAL LINE CLOCK GOTO LC#1
/ IF BR5 GOTO BG#1
/ IF BR4 GOTO BG#1
/ IF UART RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H#1
                          / IF CONSOLE STOP GOTO Hel
/ IF NONE OF THE ABOVE GOTO Fe1
```

SH2=5 ROTATE B LEFT! F SHIFT

220

022

Ø23

024

Ø22

023

024

031

LOC NXT + JSR

```
GET TO J2m1 FROM Dim1 VIA BUT JSRMP (INSTMJSR)
GET TO J2m1 FROM D2m3 VIA BUT JSRMP (INSTMJSR)
GET TO J2m1 FROM D3m5 VIA BUT JSRMP (INSTMJSR)
GET TO J2m1 FROM D6mm VIA BUT JSRMP (INSTMJSR)
J2m1 NOP
212 261
                / J2=1 MUST BE A NOP BECAUSE FOLLOWING A CKOFF, THE AMX WILL BE FORCED TO TAKE DATA FROM THE UNIBUS.
261
       262
               32-1A R[113+B
               12-2 B,BA-RE6J-21 ENABOVER
12-3 RE6J-B; CKOFF; DATO
262
       214
214
       206
                         DRIVERS-R[S]
        216
               J2-4
216
               J2-5
                        B-PC
        263
263
        264
                        R[S]+B
               √2 ■ 6
264
       265
               -2-7
                        BeR[11]
               2=8 PC+B; BUT SERVICE

/ PRIORITIES ARE LISTED HIGHEST TO LOWEST

/ IF T BIT TRAP GOTO BT=1
265
        040
                / IF STACK OVERFLOW GOT ERT1A
                / IF POWER FALIL GOTO PF#1
               / IF BR7 GOTO BG=1
/ IF BR6 GOTO BG=1
/ IF INTERNAL LINE CLOCK GOTO LG=1
/ IF BR5 GOTO BG=1
/ IF BR4 GOTO BG=1
/ IF BR4 GOTO BG=1
               / IF WART RECEIVE GOTO WRTR
/ IF WART TRANSMIT GOTO WRTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
        NXT # RTS
FOC
                / GET TO RIW! FROM FW5 VIA BUT IR DECODE (INSTERTS)
                        BARREGII DATI
BERREGIAZ
REGIAB
                Rie1
005
        221
221
        222
                R1=2
222
        223
                R1.3
223
        224
                R 1 = 4
                        B&R[D]
                        PC+B1 CKOFF
               R1.=5
224
        225
               R1=6
                       BEUNIBUS DATAL GOTO DOM4
        332
LOC NXT * RTI
                / GET TO R2#2 FROM F#5 VIA BUT IR DECODE (INST#RTI)
               R2#1 BA#RE63; DATE
R2#2 B#RE63#2
                                       K-MP- KD=11B-MICOPROGRAM FLOW REV, A
                                                                                                                                            PAGE 15 OF 22
                                                                                                             27-JUL-72
231 232 R2+3 R[6]+B| CKOFF
232 234
               R244 PC+UNIBUS DATA
                / THERE IS NO RES (ANY MORE)
234
        235
                R2+6 BARREGJ; DATI
235
        236
               R2=7
                       B+R[6]+2
236
        237
                R2-8 R[6]-BI CKOFF
                R2-9 PS-UNIBUS DATA! GOTO B2-2 (BUT SERVICE)
237
        305
                * WAIT
               / GET TO W=1 FROM F=5 VIA BUT IR DECODE (INSTEWAIT)
/ GET TO W=1 FROM W=1 VIA GOTO IF BUT SERVICE IS FALSE
W=1 BUT SERVICE
063 040
                  THE MICRO PROGRAM W.
                PRIORITY CONDITION IS RECOGNIZED BY THE 'BUT SERVICE' ROM SEE PIMI ON
                / THE CONE PRINT.
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
                / IF STACK OVERFLOW GOTO ERTIA
                / IF POWER FAIL GOT PF #1
                / IF BR7 GOTO BG=1
                / IF BR6 GOTO BGe1
                / IF INTERNAL LINE CLOCK GOTO LC-1
/ IF BR5 GOTO BG-1
                / IF BR4 GOTO BG#1
/ IF UART RECEIVE URTR
/ IF UART TRANSMIT TOTO URTX
                / IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE TOTO F=1
LOC NXT . HALT
                ✓ GET TO H=1 FROM F=5 VIA BUT IR DECODE (INST#HALT)
✓ GET TO H=1 FROM BUT SERVICE
               / GET TO HEL FROM BUT HELD BY PUTTING IT INTO B DISPLAY PC IN LIGHTS BY PUTTING IT INTO B / GET TO HEZ FROM CEIES VIA GOTO / GET TO HEZ FROM CLES VIA GOTO / GET TO HEZ FROM CLES VIA GOTO HEZ BARRE17]; BUT SWITCH
041
        302
302 300
                THE BA IS COADED HERE SO THAT THE ADDRESS WILL BE INCREMENTED BY #1 WHEN EXAMINING (DEPOSITING INT AND BY #2 WHEN EXAMINING (DEPOSITING INTO) SUCCESSIVE FORE MEMORY.
                / IF CONTINUE DEPRESSED GOTO CCS41
```

/ IF EXAMINE (1 ST) GOTO CE181

/ IF BR7 GOTO BG=1 / IF BR6 GOTO BG=1

/ IF INTERNAL LINE CLOCK GOTO LC-1
/ IF BR5 GOTO BG-1

```
/ IF EXAMINE (NOT 1 ST) GOTO CE2#1
               / IF DEPOSIT (1 ST) GOTO CD1#1
/ IF DEPOSIT (NOT 1 ST) GOT CD2#1
                / IF LOAD GOTO CL=1
                / IF NO SWITCHES ARE DEPRESSED LOOP ON H=2
LOC NXT * EMT TRAP (VECTOR LOC#30)
/ GET TO ET#1 FROM F#5 VIA BUT IR DECODE (INST#EMT)
             GET TO ET#1 FROM F#5 VIA BUT IR
ET#1 B#K[30]

GET TO ET#2 FROM BT=1 VIA GOTO

GET TO ET#2 FROM IT#1 VIA GOTO

GET TO ET#2 FROM T#1 VIA GOTO

GET TO ET#1 FROM RT#1 VIA GOTO

GET TO ET#2 FROM ERT#1 VIA GOTO

GET TO ET#2 FROM PF#1 VIA GOTO

GET TO ET#2 FROM PF#1 VIA GOTO

ET#2 R[12]#8

ET#3 B_BA*R[6]#2; ENABOVER

FT#4 HAS BFFN FLIMINATFO
Ø11 245
245 246
246 247
              / ET=4 HAS BEEN ELIMINATED
ET=5 R[6]=B! CKOFF! DATO
ET=6 DIRVERS=PS
247 226
226 251
                        B.BA=RE63=21 ENABOVER
RE63+81 CKOFFI DATO
251 252
252 253
                ET#7
                ET-8
253 254
               ET-9
                         DIRVERS+PC
254 255
               ET-10 BA-RC1231 DATIS CKOFF
255 256
               ET-11 PCHUNIBUS DATA
                ET-12 BA-RE12]+21 DATII CKOFF
       257
                ET=13 PS=UNIBUS DATA; GOTO B2=2 (SERVICE)
257
       305
LOC NXT * BREAKPOINT TRAP (VECTOR LOC#14) AND T BIT TRACE TRAP
               / GET TO BT#1 FROM ALL BUT SERVICE

/ GET TO BT#1 FROM F#5 VIA BUT IR DECODE (INST#BREAKPOINT)
045 245 BT-1 BeK[143; GOTO ET-2
LOC NXT + 10T (VECTOR LOC=20)
/ GET TO 1741 FROM F#5 VIA BUT IR DECODE (INST#10T 273 245 IT#1 8#K[20]) GOTO ET#2
                                     K-mr- KD=118-IMICOPROGRAM FLOW REV, A
                                                                                                            27-JUL-72
                                                                                                                                            PAGE 17 OF 22
LOC NXT # TRAP (VECTOR LOC#34)
               / GET TO T=1 FROM P=5 VIA BUT IR DECODE (INST#TRAP)
T=1 Bek[34]; GOTO ET=2
LOC NXT * RESERVED INST TRAP (VECTOR LOC#10)
                / GET TO RT=1 FROM Fa5 VIA BUT IR DECODE (INSTANON VALID)
001 245 RT-1 BeK[10]; GOTO ET-2
LOC NXT * ERROR TRAP (BUS ERROR, STACK OVERFLOW, ILLEGAL INST) VECTOR LOC#4
               THERE EXISTS ERT41 (LOC#10) FOR BUS ERROR

THERE ALSO EXISTS ERT1A (LOC#46) FOR STACK OVERFLOW

ERT1A GOES TO ET2#2, A SEQUENCE WHICH DOESN'T HAVE THE

ENABOVER, WE DON'T WANT TO LOOK FOR STACK OVERFLOW WHILE

DOING THE STACK OVERFLOW TRAP, THE ET2#2 SEQUENCE REJOINS THE ET SEQUENCE AT ET#8

THERE ALSO EXISTS ERT1B (LOC#153) FOR ILLEGAL INST (JSR OR JMP; MODE 0)

ERT#1 B#K/41/ GOTO FT#2
010 245 ERT#1 8+K[4]; GOTO ET#2
LOG NXT * CONSOLE START SWITCH
              / GET TO CS#1 POULOWING RELEASE OF START SWITCH; CS#1 IR#ZERO
                CLOCKING THE IR TURNS ON THE RUN LIGHT
322 321 CS-2 BA, B+RE17]
321 040 CS-3 PC-BI BUT SERVICE
                PRIDIRTIES ARE LISTED HIGHEST TO LOWEST
               / IF STACK OVERFLOW GOTO ERTLA
/ IF POWER FAIL GOTO PP-1
```

```
/ IF BR4 GOTO BG#1
              / IF WART RECEIVE GOTO WRTR
               / IF CONSOLE STOP GOTO H=1
               IF NONE OF THE ABOVE GOTO F-1
LOC NXT * CONSOLE EXAMINE SWITCH= FIRST TIME IN SEQUENCE (DON/T INC REITS)

/ GET TO CE1=1 FROM H=2 VIA BUT SWITCH
/ GET TO CE1=1 FROM CE2=2 VIA GOTO

317 307 CE1=1 BA,B*RE17]; BUT SWITCH
/ DISPLAY ADDRESS BY PUTTING INTO THE B REGISTER WHILE EXAMINE IS DOWN
/ LOOP ON CE1=1 UNTIL SWITCH IS RELEASED

307 326 CE1=2 DATI; CKOFF

326 302 CE1=3 B*UNIBUS DATA; GOTO H=2
LOC NXT * CONSOLE EXAMINE SWITCH * OTHER THAN FIRST IN SEQUENCE (INC RE171)
               / GET TO GEZ-1 FROM H-2 VIA BUT SWITCH
              CE2-1 B-R[17]+2
315 371
               ✓ RE17J IS IN BA FROM H=2, THIS WILL CAUSE +2 TO BECOME +1 WHEN EXAMINING REGISTERS;
371 317 CE2+2 R[17]+8; GOTO CE1+1
LOC NXT * CONSOLE DEPOSIT SWITCH * FIRST TIME IN SEQUENCE (DON'T INC RE17])
             / GET TO CD1=1 FROM H=2 VIA BUT SWITCH / GET TO CD1=1 FROM CD2=2 VIA GOTO CD1=1 B4R[17]; BUT SWITCH
313 303
               / LOOP ON CO1-1 UNTIL DEPOSIT SWITCH IS RELEASED CO1-2 BA-KE2071 BAR; DATI; CKOFF / COMPLEMENT OF 207 # 177570 = SWITCH REGISTER ADDRESS
303 374
              CD1=3 BOUNIBUS DATA
314 372
              CD1=4 BARRE17]; DATO; CKOFP
372 302 CD1=5 DRIVERS+B; GOTO H=2
                                     K-MP-KD=11B-MICOPROGRAM FLOW REV' A
                                                                                                      27 JUL=72
                                                                                                                                 PAGE 19 OF 22
LOC NXT * CONSOLE DEPOSIT SWITCH = OTHER THAN FIRST IN SEGENCE (INC REITS)
               / GET TO CO2=1 FROM H=3) VIA BUT SWITCH
             CD2=1 BeR[17]+2
/ PC17J IS IN BA', THIS WILL CAUSE +2 TO BECOME +1 WHEN DEPOSITING INTO REGISTERS 337 313 CD2+2 RC17J+B; GOTO CD1+1
LOC NXT - CONSOLE CONTINUE SWITCH
               / GET TO CCS+1 FROM H=2 VIA BUT SWITCH
 316 276 CCS=1 B+PC
276 270 CCS#2 BUT SWITCH
272 Ø62 CCS=3 IR=ZERO; GOTO F=1
/ CLOCKING THE IR TURNS ON THE RUN LIGHT
LOC NXT * CONSOLE LOAD SWITCH
               / GET TO CL#1 FROM H#2 VIA BUT SWITCH
CL#1 BA*KE207] BAR; DATI; CKOFF
/ COMPLEMENT OF 207 # 177570 # SWITCH REGISTER ADDRSS
              CL=2 BeUNIBUS DATA
CL=3 R[17]+B; GOTO H=2
367 302
               / CL=3 GOES TO H=2 VIA GOTO, IF LOAD IS STILL DEPRESSED, THE BUT / SWITCH IN H=2 WILL TAKE US BACK TO CL=1. THUS, AS LONG AS LOAD IS / DEPPRESSED, CHANGES IN THE SWITCHES WILL SHOW UP IN THE B REG (LIGHTS) AND IN RE173.
LOC NXY * POWER PAIL (VECTOR LOC#24)
               / GET TO PF=1 FROM SERVICE
043 245 PF=1 8+K[24]; GOTO ET=2
```

LOC NXT + RESTART FROM POWER FAIL (VECTOR LOC#24)

/ GET TO RS#1 MYSTERIOUSLY AS POWER COMES UP (NXT CHIPS, FØ92 AND FIØ3 SHOWN ON THE CONF PRINT,

/ ARE DISABLED FORCING THE MICROPROGRAM TO RS#1 IN LOC Ø;

800 241 RS#1 BA*K[24]; DATI

241 347 RS#1A CKOFF

```
/ MUST DO CKOFF IN RS-1A BECAUSE OF CONFLICT BETWEEN
                     / CKOFF AND INIT CREATED BY CKOFF ASSOCIATED WITH AUX CONTROL RS=2 PC+UNIBUS DATA
347 074
074 351
351 305
                     RS-3 BA-KC24]+21 DATII CKOFF
                      RS-4 PS-UNIBUS DATA! GOTO B2-2 (SERVICE)
LOC NXY * INTERRUPT SERVICING
           / GET TO INTel FROM BG#2 VIA BUT INT (TRUE)
246 INTel R[12]#UNIBUS DATA; SET SLAVESYNC; GDTO ET#3
 LOC NXT " BUS GRANT SERVICE
                     / GET TO BG#1 FROM BUT SERVICE
BG#1 BUT INTERRUPT; GOTO B2#2 (BUT SERVICE)
/ IF INTERRUPT GOTO INT#1
/ IF NO INTERRUPT FALL THROUGH TO B2#2
 0.40
           305
 LOC NXT * NOP - BRANCH CONDITION NOT TRUE (PC UNCHANGED)
                      / B2m1 HAS BEEN ELIMINATED BECAUSE NEW! IS NO LONGER / GET TO B2m2A FROM D0=3 VIA BUT NONMOD (TRUE) / GET TO B2m2B FROM D1=4 VIA BUT NONMOD (TRUE) / GET TO B2m2C FROM D0=10 VIA BUT NONMOD (TRUE)
/ GET TO B2=2C FROM DO=10 VIA BUT NONMOD (TRUE)
/ GET TO B2=2D FROM P=5 VIA BUT IR DECODE, BRANCH INST, CONDITION NOT TRUE
/ GET TO B2=2 FROM RST=1 VIA GOTO
/ GET TO B2=2 FROM D0=4 VIA GOTO
/ GET TO B2=2 FROM D0=2 VIA BUT NONMOD (TRUE)
/ GET TO B2=2 FROM MB=2 VIA GOTO
/ GET TO B2=2 FROM CC=1 VIA GOTO
/ GET TO B2=2 FROM SC=1 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM LT=13 VIA GOTO
/ GET TO B2=3 FROM LT=13 VIA GOTO
/ GET TO B2=4 BUT SERVICE
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
                      / IF T BIT TRAP GOTO BT#1
/ IF STACK OVERFLOW GOTO ERTIA
                       / IF POWER FAIL GOTO PF=1
                       / IF BR7 GOTO BG#1
                                                       K-mp KD=128)MICOPROGRAM FLOW REV; A
                                                                                                                                                       27:101-72
                                                                                                                                                                                                PAGE 21 OF 22
                      / IF BR6 GOTO BG#1
                      / IF INTERNAL LINE CLOCK GOTO LC-1
/ IF BR5 GOTO BG-1
/ IF BR4 GOTO BG-1
                      / IF UART RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1
 LOC NXT # RESET
                       / GET TO RST=1 FROM P=5 VIA BUT IR DECODE (INSTERESET)
 357 305 RST-1 BUT INIT; CKOFF; GOTO B2-2 (BUT SERVICE)
```

```
LOC NXT * UART XMIT (VECTOR LOC 64)

M60 245 URTX B*K[64]; GOTO ET=2

LOC NXT * UART RECEIVE (VECTOR LOC 60)

M64 245 URTR B*K[60]; GOTO ET=2
```

LOC NXT * LINE CLOCK (VECTOR LOC 100) 042 245 LC=1 Bek[100]; 6010 ET=2

110 041 OBE#1 NOP! GOTO H#1

DOUBLE BUS ERROR. GOTO HALT

)

ERTIA NOT EXPLICITLY SHOWN IN PLOW D0=5A NOT EXPLICITLY SHOWN IN PLOW A145 NOT EXPLICITLY SHOWN IN FLOW ET2=2 NOT EXPLICITLY SHOWN IN FLOW ET2=5 NOT EXPLICITLY SHOWN IN FLOW ET2=5 NOT EXPLICITLY SHOWN IN PLOW ET2=7 NOT EXPLICITLY SHOWN IN PLOW ET2=7 NOT EXPLICITLY SHOWN IN FLOW B2=2A NOT EXPLICITLY SHOWN IN PLOW B2=2B NOT EXPLICITLY SHOWN IN PLOW B2=2B NOT EXPLICITLY SHOWN IN PLOW B2=2C NOT EXPLICITLY SHOWN IN PLOW B2=2D NOT EXPLICITLY SHOWN IN FLOW B2=2D NOT EXPLICITLY SHOWN IN FLOW ERTIA NOT EXPLICITLY SHOWN IN PLOW

								P	AG	E R	EVI	SIO	N C	ON	TRC	DL S	SHE	ET						
SH NO.									PAGI	E RE\	/ISIO	NS										REM	IARKS	
1 2 3 4 5	A A A A	B A A A	C A B A A																					
CH ECO		KD118	KD11B																					
ENG. ETCH	ВА	4-24-26MT	Z M T																					
DATE	26-12-8	45-4	21-28-01																			SED ON	N OPTION	/MODEL
′тн і	S DRA	wing	AND SP	PECIFIC	CATION	S, HEF	REIN, A	RE THI	E	PROPRO	G. ARM OJ. EI ARMS	STRI	ONG	G (8	DATE B-2/- DATE B-29- DATE -29- DATE	72 72	TITLE	=======================================	CR SY	ta	RC3C	EQU COR MAYNA DGF	RAM C	I E N T ATION CHUSETTS
PROP NOT I PART ITEM	ERTY BE REI AS TH S WITH	OF DIC PRODU IE BAS IOUT V	GITAL I ICED OI IS FOR VRITTE	EQUIPA R COPI THE M N PERI	MENT C ED OR MANUF MISSIO	ORPOR USED I ACTUR N.	RATION IN WHO IE OR S	N AND S OLE OR SALE OI	SHALL IN F	B	-DE) - K	DI	-	3		K DIST.			DII-		IBER - 2		REV.

K-mp	KD=1	18-3M	ICRO	PROC	RAM	SYME	Bolic	LI	STING	RE	F _E A			27•	JULE	72	PAGE	2 oF	6
ALC	A 1 - 11	4110	9 4 9	01.6	906	0110	60N	222	6D 1	a Cu	904	E A 14	e D A	604	TAIR	AIV T			

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											-			-					
NAME	LOC	187	ALG	ALU	AUX	BAR	8 ୮ ¢	BRG	BUT	CON	CKO	CRI	FSH	PŞW	SAM	SPA	SPF	TNS	TXM
A145 B#1 B#2 B#3		₩0 ₩0 ₩0	PSW SP SP SP	AA ASL A+B BL	ON OFF OFF	LIII	#1 BRG BRG BRG	L	MOV NON NON SRV	NON NON NON	ON OFF OFF	OFF OFF OFF	OFF	TIII	ROM ROM ROM	RØ R7	WRI REA REA WRI	RRO NON NON NON	
82#2A 82#2A 82#2B 82#2C	3Ø5 333 335 343	-	SP SP SP	AL AL AL	OFF OFF OFF	LILL	BRG BRG BRG BRG	I I I I	SRV SRV SRV SRV	NON NON NON	OFF OFF	OFF OFF OFF	OFF OFF OFF	III	ROM ROM ROM	RØ	REÀ REÀ REÀ	NON	8G=1
82#2D 8G#1 8T#1 CC#1	040	V 0	SP SP NUL PSW	AL AL AL ABBAR	OFF OFF OFF	EEEE	BRG BRG BRG BRG	ILLI	SRV INT CON SRV	NON	OFF	OFF OFF OFF	OFF OFF OFF	FILE	ROM ROM ROM	RØ	REA REA WRI REA	NON NON NON	86#1 82#2 ET#2 86#1
CCM=1 CCM=2 CCS=1 CCS=2	350 316	2	NUL SP SP SP	AANDB AL AL AL	OFF OFF OFF	ELLE	BRG BRG BRG	1111	DST	36Ø NON NON NON	OFF OFF OFF	OFF OFF OFF	OFF OFF OFF	X X X X	ROM	RØ RØ R7 RØ	WRI REA REA	NON	CCM+2 CC#1 CC\$+2 DO#1
CCS=3 CD1=1 CD1=2 CD1=3	313 303		SP SP NUL NUL	ZERO AL ABAR AL	OFF OFF OFF	ILI	BRG BRG BRG BRG	ד ד ד ד	,	NON NON 207 NON	OFF OFF OFF	OFF OFF OFF	OFF OFF OFF		ROM ROM ROM BAR	R17 RØ	REA REA WRI REA	1	F#1 CD1=2 CD1=3 CD1=4
CD1=4 CD1=5 CD2=1 CD2=2	372 312	N D	5P 5P 5P	AL BL A+B BL	OFF OFF OFF	HHH	BRG BRG +1 BRG	H	NON	NON NON NON	ON OFF OFF	OFF OFF ON OFF	OFF	TIT	BAR	R17 RØ R17 R17	REA	NON	
CE1=1 CE1=2 CE1=3 CE2=1	307 326	0 N O O O O O O O O O O O O O O O O O O	SP SP NUL SP	AL AL AL	OFF OFF OFF		BRG BRG BRG		8 W NON NON	NON NON NON	OFF ON OFF OFF	OFF OFF ON	OFF OFF OFF	HHH	ROM ROM BAR ROM	R17 RØ RØ R17	REA	NON	CE1=3 H=2 CE2=2
CE2+2 CL+1 CL+2 CL+3	371 311 375 367	NO NO	SP NUL NUL SP	BL ABAR AL BL	OFF OFF OFF	H L H H	BRG	L	CON	207 NON	ON OFF	OFF OFF OFF	OFF OFF		RQM BAR	R17 RØ RØ R17	WRT	t	CE1=1 CL=2 CL=3 Ha2
C\$#1 C\$#2 C\$#3 DØ#1		NC NC NC NC	SP SP SP	ZERO AL BL AL	OFF OFF OFF	ILI		TIL	IRC NON SRV MOV	NON NON		OFF OFF OFF	OFF OFF	IIII	ROM	RØ R17 R7 RØ	REA WRI REA	NON	CS#2 CS#3 BG#1 MB#Ø
DØ#2 DØ#3 DØ#3A DØ#4	157 162 155 332	NO NC	5 P 5 P 5 P	BL ABAR ABAR BL	OFF ON ON OFF	LILL	BRG BRG BRG	ILLI	UNY NMD NMD SRV	NON NON NON	OFF OFF OFF	OFF ON ON OFF	OFF OFF OFF	TILI	ROM	R1I R1Ø R1Ø RØ	WRI REA REA WRI	NON NON NON	DØ#4
D1#1 D1#2 D1#3 D1#4	103 200 210 163	YES NO NO NO	SP NUL SP SP	AL AL BL ABAR	OFF OFF ON	TEEL	BRG BRG BRG BRG	1111	JOJ BYT UNY NMD	NON NON NON	ON OFF OFF	OFF OFF ON	OFF OFF OFF	TITI	BAR	RØ RØ R11 R10	REÀ REÀ WRI REÀ		D1=2 D1=3 D0=18 D1=5

NAME	LOC A	вт Д	ALG	ALU	AUX	EAR	RLG	BRG	BUT	CON	CKD	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
D1-5 D1-6 D2-1 D2-2	334 YI 065 VI 105 YI 331 VI	D 9 ES 9	SP SP SP	AL BL AL A+8	OFF OFF OFF	H	RRG RRG FRG +1	H	NON	NON	OFF	OFF OFF	OFF OFF OFF	IIII	ROM ROM IRD IRD	RO RO	REA	NDN IP	D1-6 B2-2 O2-2 D2-3
72-3 73-1 73-2 73-3	107 ±	0 9 0 9	5P 5P 5P	BL AL A+R BL	OFF	Н	RRG PRG +1 PRG	L	000 000 000 000 000	NON	DN DFF DFF DN	OFF OFF ON OFF	OFF OFF OFF	IIII	IRD IRD IRD IRD	RO	WRI REA REA WRI	I	01-2 03-2 03-3 03-4
03-4 03-5 04-1 05-1	072 /	ES S	NUL SP SP SP	AL BL A-R-1 A-R-1	OFF OFF OFF	L	886 886 +1 +1		FNO	NON	OFF ON OFF OFF	OFF OFF	OFF OFF	IIII	BAR ROM IRD IRD	RO RO	REA	IP IP	D3=5 D1=2 D2=3 D3=3
76-1 76-2 76-3 76-4	075 H	0 9	SP SP SP NUL	AL A+8 BL AL	OFF OFF OFF	T T	RRG FRG BRG	LI	NON	-	OFF OFF ON OFF	OFF	OFF OFF OFF	TITI	ROM ROM ROM BAR	R7 R7	REA WRI	I NON NON	D6=2 D6=3 D6=4 D6=5
06-5 07-1 07-2 07-3	300 \ 117 \ 310 (104 \)	0 9	SP SP SP SP	A+8 AL A+8 BL	OFF	III	PRG BRG +1 BRG	ΗL	NON	NON NON NON NON	OFF OFF	OFF OFF ON OFF	OFF OFF OFF	IIII	IRD ROM ROM ROM	R7 R7	_	Ī	D1=2 D7=2 D7=3 D7=4
07-4 07-5 080-1 080-2	320 h 106 h 156 h 164 h	0 9	NUL SP SP SP	AL A+B BL ABAR		IIII	RRG RRG SEX BRG	H L	NON NON UNY UMD	NDN	ÜFF	OFF OFF OFF ON	0FF 0FF 0FF	III		R0 R0 R11 R10	REA	1	07=5 03=4 SB1=5 080=3
	304 N 110 N 250 N 270 N) 9	SPR SP SP	BL BL AL	OFF	FILI	BRG BRG SEX BRG	H	NON UNY	NDN NDN	OFF OFF OFF	OFF OFF	OFF OFF ON	1111	IRD ROM ROM ROM	R0 R11	REA WRI	NON NON NON	BG-1 H-1 D1-4 DO-2
00-11 90-12	165 N 342 N 135 N 136 N) <u> </u>	SP SP SP	ABAR AL AL AL	OFF	IIII	PRG PRG PRG PRG	SL SL	NON	NON NON NON	OFF OFF	ON OFF OFF OFF	OFF ON ON	TITI		RO RO	REA REA REA	NON NON NON	DO=11 DO=12 OO=13 DO=14
70-15 70-16	137 N 140 N 141 N 142 N	.) 5	SP SP SP	A L A L A L	OFF OFF	н н н	BRG BRG BRG BRG	SL SL	NON	NON	OFF OFF OFF	OFF OFF	0 N 0 N 0 N	TITI	ROM ROM ROM ROM	RO RO	-	NON NON	00=15 00=16 00=17 00=18
00-1° 00-2 00-3 00-4	143 YI 123 NI 124 NI 125 NI	(9	SP SP SP SP	AL AL AL	OFF	TITI	BRG BRG BRG BRG	SR SR	NON	NON	ON OFF OFF OFF	OFF	OFF ON ON	TIII	ROM ROM ROM ROM	RO	REA REA REA	0 NON NON	01=6 00=3 00=4 00=5
00-5 00-6 00-7 00-8	126 N 127 N 130 N 131 N	i. 5	SP SP SP	A L A L A L	OFF OFF OFF	H H	ARG ARG ARG ARG	SR SR	NON	NON	DFF OFF OFF	OFF	ON ON OFF	IIII	ROM ROM ROM	RO RO	REA PEA	NDN NDN NDN	00=6 00=7 00=8 00=9

K-MP-KD-11-B-2MICROPROGRAM SYMBOLIC LISTING REV.B 5-SEP-72

18-0CT-72	PAGE	4	OF	
T0-001-15	1 40 6	7	01	

27=JUL=72

REA NON S7#3

ROM R7

PAGE 5 OF 6

K-MP-KD-11-B-ZMICROPROGRAM SYMBOLIC LISTING REV.B	K- MP-KD-11-B-2MICRO	PROGRAM SYMBOL	I to I ISTING	REV.B
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NAME L	0C A	ет	ALG	ALU	ΔÜΧ	BAR	BLG	BRG	RUT	CON	CK0	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
00-9 1 ERT-1 Ø ERT1A Ø ERT1P 1	44 N	10 10	NUL NUL	BL AL AL	OFF OFF	TITI	SEX BRG BRG BRG	L	COV COV COV COX		OFF OFF	OFF OFF OFF	0FF	H H	ROM ROM ROM	RØ RØ	WRI WRI	NON NON	A145 ET-2 ET2-2 ET-2
ET-1 0 2 ET-11 2 ET-12 2	55 N	0	NUL SP SP SP	AL AL A+9	OFF OFF	I LI L	BRG BRG +1	H	CON IRC NON NON	NON	OFF	OFF OFF ON	OFF OFF OFF	II	ROM ROM ROM	R12 R7	REA	I NON	ET-2 ET-11 ET-12 ET-13
ET-3 2	57 N 45 N 46 N 47 N	40 40	SP SP SP SP	AL BL A-8-1 BL		ILIL	BRG BRG +1 BRG	L	NON ENG	NON NON NON	OFF OFF	OFF OFF	OFF OFF OFF	H H	ROM ROM ROM	R12 R6	WRI	NON	B2-2 ET-3 ET-5 ET-6
ET-7 2 ET-8 2	26 N 51 N 52 N	νο νο	PSW SP SP SP	AL A=B=1 BL AL	OFF OFF OFF	L H	BRG BRG BRG	L	NON:	NON NON NON	OFF ON	OFF OFF	OFF OFF	Ħ	ROM ROM ROM	R6 R6	REAWRI	NON 0	ET-7 ET-8 ET-9 ET-10
ET2-2 0 ET2-3 0 ET2-5 0 ET2-6 0	24 N	V0 V0	SP SP SP SP SP	BL A-B-1 BL AL	OFF OFF OFF	L	RRG +1 BRG BRG	L	NON	NON NON NON	OFF ON	OFF OFF	OFF OFF	H	ROM ROM ROM ROM	R 6 R 6	REA WRI	и о и 0	ET2-3 ET2-5 ET2-6 ET2-7
F=2 2	151 N 162 N 153 N 165 N	NO NO	SP SP SP	A=B=1 AL A+8 BL	OFF OFF	LHH	+1 9RG +1 9RG	L	NON	NON NON NON	OFF OFF			H H	ROM ROM ROM ROM	R7 R7	REA REA		
F~5 2 H-1 2	64 M 61 M 741 M 802 M	N Q N Q	NUL SP SP SP	AL AL AL		H	RRG SEX RRG BRG	Ĺ	IRD	NON	OFF	OFF OFF	OFF OFF	H	BAR ROM ROM ROM	RØ	REA REA	NON	RT-1
IT-1 2 J1-1 2	325 1 273 1 204 1 269 1	N 0 N 0	SP NUL SP SP	AL AL BL	OFF OFF OFF	H	RG BRG BRG	L	5 V S C O N N O N S R V	NON		OFF OFF	OFF OFF	H	ROM ROM ROM ROM	RØ RØ	WRI REA	NON NON	ET-3 ET-2 J1-2 BG-1
J2-1A 2 J2-2 2	212 261 262 214	N 0	SP SP	AL 8L A=8-1 BL	OFF OFF OFF	Н	BRG BRG +1 BRG	H	NON	NON NON NON	OFF OFF	OFF OFF		H	ROM ROM ROM	R11 R6	WRI	NON NON	J2-1 A J2-2 J2-3 J2-4
J2-5 2 J2-6 2	226 216 263 264	N0 N0	5 P P P S	AL BL AL	OFF OFF OFF	H H	BRG BRG BRG	H	NON	NON NON NON	OFF OFF	OFF OFF	OFF OFF	H	IRS ROM IRS ROM	R7 RØ	REA WRI	NON NON	J2-5 J2-6 J2-7 J2-8
LC-1 8 MB-0 1	265 342 154 240	N 0 N 0	5 P J P P	SL AL AL ABAR	OFF OFF ON	Н	BRG BRG BRG	L H	NON	NON 100 NON NON	OFF ON	OFF OFF	OFF	H	ROM ROM ROM ROM	RØ RØ	WRI REA	NON NON	BG-1 ET-2 MB-1 MB-2

SRV NON OFF OFF OFF H WRI NON BG#1 OFF H SEX H IRB R# MB+2 152 NO SP BL CON 24 OFF OFF OFF H WRT NON ET#2 PF=1 043 NO NUL AL OFF H BRG L ROM RØ NON NON OFF OFF OFF H OFF L 005 NO SP AL BRG H ROM R6 REA ! R1m2 R1#1 REA NON R1#3 221 NO SP OFF H +1 L NON NON OFF ON OFF H ROM R6 R1#2 OFF H NON NON OFF OFF OFF H BL ROM R6 WRY NON R1#4 222 NO SP BRG H R1#3 NON NON OFF OFF H OFF H BRG L BRG H REX NON R1=5 IRD RØ 223 NO SP R1=4 AL WRT NON R1m6 ROM R7 R1=5 224 NO SP BL NON NON OFF OFF OFF H BAR RØ PER NON DOW4 225 NQ OFF H BRG L OFF L NON NON DEP OFF OFF H ROM R6 SP BRG H REA ! R2#2 R2m1 227 NO AL NON NON OFF ON OFF H NON NON ON OFF OFF H NON NON OFF OFF OFF H ROM R6 ROM R6 REA NON R2=3 OFF H +1 L BRG H R2e2 230 NO SP A+B WRI NON R2#4 OFF H R2≅3 231 NQ SP BL WRI NON R2#6 232 NQ OFF H ROM R7 R2#4 SP. ΑL BRG H OFF L BRG H NON NON OFF OFF OFF H ROM R6 REA I R2=7 R2=6 AL NON NON OFF ON OFF H NON NON ON OFF OFF H ROM R6 R2=7 235 NQ SP OFF H REA NON R2+8 A+B #1 L BRG H OFF H WRI NON R249 236 NO ROM R6 SP BL R2=8 R2=9 237 NO BRG H NON NON OFF OFF OFF L NUL AL ROM RØ REA NON B2#2 OFF L RS-1 000 NO BRG H CON 24 OFF OFF OFF H ROM RØ WRY Y SP AL RS#1A 241 NO OFF H BRG H NON NON ON OFF OFF H ROM RØ REA NON RS#2 NON NON OFF OFF OFF H RS=2 347 NO OFF H BRG H ROM R7 WRT NON RS#3 CON 24 ON ON OFF H R5=3 Ø74 NO OFF L WRY I RS=4 NUL A+B #1 H OFF H RS#4 351 NO SP AL BRG H NON NON OFF OFF OFF L ROM RØ REA NON B2m2 INT NON ON OFF OFF H REA NON B2#2 WRI MON ET#2 ROM RØ RST#1 357 NO SP AL OFF H BRG H RTe1 001 NO NUL AL 50:1 201 NO SP AL OFF H BRG L ROM RØ BRG L REA NON SOME OFF H BYT NON OFF OFF OFF H IRS RØ ROM RID WRY NON RTHI 50-2 007 NO SP OFF H BRG H DST NON OFF OFF OFF H BL \$1=1 203 YES SP AL \$1=2 244 NO NUL AL NON NON ON OFF OFF H BYT NON OFF OFF OFF H OFF L IRS RØ REA ! \$1.2 BRG H BRG L BAR RØ REA NON SOME OFP L NON NON OFF OFF OFF H REA 1 52-2 \$2.1 205 YES SP IRS RØ NON NON OFF ON REX NON 52#3 5242 301 NO SP OFF H IRS RØ BL OFF H BRG H NON NON ON OFF OFF H IRS RØ WRI NON S1=2 S2=3 Ø14 NQ SP 207 NO SP BRG H NON NON OFF OFF OFF H IRS RØ REA ! \$3+2 53-1 AL OFF H +1 L NON NON OFF ON OFF H IRS RØ REA NON S3m3 BL BRG H NON NON ON OFF OFF H IRS RØ WRY NON S3#4 S3 = 3 017 NO SP OFF H NON NON OFF OFF OFF H 53#4 134 NO NUL AL OFF H BRG L BAR RØ REA NON S3m5 NON NON ON OFF OFF H OFF L ROM RØ 83.5 274 YES SP BRG H REA 1 51-2 211 YES SP 54-1 A-Bul OFF L +1 L IRS RØ REA I 52.3 A-Bai OFF L +1 L S5-1 213 NO SP NON NON OFF OFF OFF.H IRS RØ REA 1 53.3 215 NO SP AL 025 NO SP A+B OFF L REA I S6#2 REA NON S6#3 WRT NON S6#4 RQM R7 NON NON OFF OFF OFF H 56=1 BRG H ROM R7 +1 L BRG H OFF H 56#2 OFF H NON NON OFF ON ROM R7 OFF H NON NON ON DEF DEF H 026 NO SP S6#3 8 56=4 Ø27 NQ NUL AL OFF H BRG L NON NON OFF OFF OFF H BAR RØ REA NON S6#5 030 YES SP A+B 217 NO SP AL OFF L NON NON ON OFF OFF H NON NON OFF OFF OFF H REA ! \$1=2 56e5 BRG H IRS RØ OFF L 217 NO SP BRG H ROM R7 S7#1 REA I S7=2

NON NON OFF ON OFF H

032 NO SP

OFF H

+1 L

K-me-KD=118-2MICROPROGRAM SYMBOLIC LISTING REV. A

NAME LOC ABT ALG ALU AUX BAR BLG BRG BUT CON CKO CRI FSH PSW SAM SPA SPF TNS NXT

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NAME	FOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	cko	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
57.3	033	NG	5 P	BL	OFF	ш	BRG	u	NON	NON	n Ni	OFF	OFF	H	ROM	R7	WRI	NON	S7 m 4
57 = 4	Ø34	Νū	NUL	AL	OFF	H	BRG				OFF		OFF	Ħ		RØ	REA	*	57e5
57.5	035		SP	A+8	OFF	ï	BRG			NON	ON	OFF	OFF	H	IRS	RØ	-	T I	53±4
SB1-1	166	NO	SP	ASR	OFF	H	BRG				OFF	OFF	ÔN	H	ROM	RØ	REA	-	SB1=2
				-	•					74 🖷 . 4	41.	•, .	W ' *	,,					
SB1#2		NU	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RØ	REÀ	NON	SB1#3
SB1#3		NG	SP	ASR	OFP	H	BRG	Տև	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB1=4
SB1=4		NO	SP	ASR	OFF	H	BRG		NON	•	OFF		QΝ	H	ROM	RØ	REA	NON	SB1=5
SB1+5	144	Nυ	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	581-6
SB1=6	176	N ()	SP	ASR	OFF	н	BRG	SL	NON	NON	OFF	OFF	QN	H	RQM	RØ	REA	NON	SB1=7
SB1=7		ΝÇ	SP	ASR	OFF	Н	BRG		NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB1 = 8
SB1+8		NÇ	SP	ASR	OFF	H	BRG	-			OFF		OFF	H	ROM	RØ	REA	NON	DØ=3A
582+1	167	NΟ	5 P	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ŌΝ	H	ROM	RØ	REA	NON	\$B2#2
SB2=2	Ø12	ΝÇ	SP	ASR	OFF	Н	BRG	SĻ	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB2=3
\$ B 2=3	220	NO	SP	ASR	OFF	H	BRĢ	SL	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	\$B2#4
SB2 • 4		NÇ	SP	ASR	OFF	H	BRG	777	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB2=5
SB2+5	Ø23	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB2=6
SB2=6	024	NG	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB2=7
SB2₹7	031	NO	SP	ASR	OFF	н	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	\$B2=8
SB2=8	330	NO	SP	ASR	OFF	н	BRO	SĹ	NON	NON	OFF	OFF	OFF	H		RØ	REA	NON	D1=4
SBE+1	047	NO	SP	BL	OFF	H	BEX	H	DST	NON	OFF	OFF	OFF	H	ROM	R10	WR!	NON	RT 61
SB0=1	067	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	Н	ROM	RØ	PEA	NON	SB0=2
SB0#2	346	NU	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	SB0=3
SB0+3	324	NQ	5 P	AL	OFF	H	BRG	5R	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	580=4
SBO+4	340	Nψ	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ŌΝ	H	ROM	RØ	REA	NON	5B0=5
SB0+5	361	Nu	SP	AL	OFF	H	BRT	SR	NQN	NON	OFF	OFF	ON	H	ROM	RØ	REA	NON	580=6
SBO±€	050	NG	SP	AL.	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	Н	ROM	RØ	REA	NON	SB0=7
\$B0=7	020	NO	SP	ΑÜ	OFF	Ĥ	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RØ	REA		SB0=8
S80=8	Ø52	Nu	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	OFF	H	ROM	RØ	REA	-	SBE=1
SC:1	116	NG	PSW	AORB	OFF	H	BRG	H	SRV	NON	OFF	OFF	QFF	L	ROM	RØ	REA	NON	BG#1
Te1	021	NO	NUL	AL	OFF	H	BRG	L	CON	34	OFF	OFF	OFF	H	ROM	RØ	WRT	NON	ET#2
U1e1	352	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRY		00=3
U2=1	353	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	ÕFF	H		R10	WRI	~	D1=4
U3#1	354	NG	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI	NON	080=2
U4±1	355	NG	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI		D0=10
U5 = 1	373		SP	BL	OFF	H	BRG	, .	NON	NON	ON	OFF	ÓFF		ROM	R1Ø	WRI	NON	01:4
URTR	Ø64		NUL	ÄL			BRO		CON	60	OFF	OFF	ÖFF	Н		RØ	WRY	190	ET#2
URTX	Ø60	NG	NUL	AL	OFF	ы	BRG	L	CON	64	OFF	OFF	OFF	ы	ROM	RØ	WRI	NON	ET=2
W=1	063		SP	AL	OFF		BRG	-	,,	•			OFF		ROM				BG=1
~		-											577		· ·	-		T 1	

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8=2 8=3	147	1001	1001	0110			1	1	1			1			1		1	1	1	1	1]		11	1111			
020	146	1101	1111	0101	1 9	, 1	1	1	1	0 1	1	1	1	7	1	7	Ø	1	1	1	11	11	ØØ	1190			
82#2	305	1101	1111	0000	1 9	1	1	1	Ø	0 1	1	Ø	1	1	1	1	1	Ø	1	1	1¶	11	00	1100			
82=2A	333	1101	1111	0000		1		-	-	0 1	1				1		1				11	5/a	ØØ	1100			
82#28	335	1101	1111	0000		1		_		7 Î	ī	-		ī	ī		1				11	11		1100			
B2#20	343	1101	1111	0000	1 6	1	1,	1	Ø	0 1	1	Ø	1	1	1	1					1 I	11	00	1100			
n2-2n	a 1 3	4494		######################################			4		<i>a</i>	~ 4		~	4			_		~					~~	3466			
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CC=1	112	1101	1111	0010		1				0 1 0 1	1	_	1			1		Ø			11		20	1101 1100			
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CCM=1	151	9001	0111	0001	1 2	1	1	1	Ø	0 1	1	1	1	1	1	1	Ø	Ø	1	1	11	10	11	1101			
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CCS#1	-	8100	8081	9999	1 0		1	1				1	1	1	1		1				11		11	1111			
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CCS#3	272	1100	1101	0011	1 8	1	1	1	Ø	Ø 1	1	Ø	1	1	1	1	4	Ø	4	1	if	4 1	ØØ	0000			
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CD1=4		5000	0101	0000		1				1 1			1	-	Ø		1				ØĨ		ØØ	1111			
CD1=5		8011	1101	0101		1		1		7 1	0			1	1	1	1				11		ØØ	1111			
CD2#1		0010	Ø 7 Ø Ø	0110		. 1				1 1			1		1	1		1			11		11	1111			
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CE1=1	317	9011	1000	0000	1 8	1	1	1	1	1 1	1	1	1	1	Ø	1	1	1	1	1	11	11	11	Ø11Ø			
CE1e2	307	9010	1701	ଷଷ୍ଟ୍ର	1 8		1			ð 1	1				1		1		2	1	10	11	ØØ	1111			
CE1e3	326	3011	1101	ଷଷଷଷ	1 6	1	1	1	Ø	Ø 1	Ø	Ø	Ø	1	1		1		1	1	11	10	11	1111			
CE2#1	315	5000	0110	0110	Ø :	. 1	1	1	1	1 1	1	1	1	Ø	Ø	1	1	1	1	1	11	11	11	1111			
CE2=2	371	3011	0000	0101	1 8	1 1	1	1	4	1 1	1	1	1	1	1	1	Ø	1	i	1	11	11	ØØ	1111			
CLE1	311	3000	0010	1111	1 8		1	1		0 1	1				Ď		Ø	ø	Ø		10		20	1111 1101			
CL 2	375	3000	1000	0000	î	-		i	Ø	0 1	ø			1	1		1		1		ii	- Table 11	11	1111			
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€\$ <b>=</b> 1	100	9010	1101	0011	1 6			1		0 1			1		1		1				1 Í		ØØ	0000			
CS=2	322	3010	1110	0000		1		1	1	1 1			1		Ø	1	1				11		11	1111			
€5#3 80-1	321 101	1101	1111	0101 0000	1 6		1	1		Ø 1			1		1		0	10			1 Î 1 Î	11, 14	00 11	1100			
00=1	T # T	7557	わいサイ	BANA	. K	, 1	•	+		- 4	۵	W	4	+	4	*	_	IJ	1	*	* T		44	0101			
00-2	157	1001	1101	0101	1 8	1	1	1	Ø :	1 1	1	1	1	1	1	1	Ø	Ø	1	1	11	11	ØØ	1010			
00.3	162	3010	0101	1111	1 1					1 1	1		1		1		1		1	1	1 Ĭ		11	0010			
00.34	_	7010	0101	1111	1 1	1	Ø		Ø	1 1		Ø	1	1	1	1	1	Ø	1	1	1 Í	11	11	0010			
00 = 4	332	1101	1111	0101	1 4	1	1	1	Ø	Ø 1	Ø	Ø	1	1	1	1,	Ø	Ø			11	11	ØØ	1100			

	K-MP- KD-1	1-8-3MICROPROGRA	M BINARY	LISTING REV. B	5=SEP=72	PAGE 3 OF 7
N L A N M C	N X T		USP	S D S S S B P I M P M B 3 P O O 1 T	B B S S C A T A B A T P P K B N L R R P F 2 D T S G G	8 U T
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07-4 320 07-5 106 080-1 156 080-2 164	1011 1001 1100 0110 1001 1011 1011 1011	0000 1 0 1 0110 0 0 1 0101 1 0 1 1111 1 1	1 1 0 1 1 0	0 1 0 0 0 1 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1	1 1 1 0 1 1 11 10 11 0 1 1 0 0 1 10 11 00 1 0 0 0 1 1 11 11 11 11 1 1 1 0 1 1 11 11 11	1111 1111 1010 0010
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K-MP	- KD=11-83MICROF	PROGRAM BINARY	LISTING REV. B	18-0CT-72	PAGE 4 OF 7
N L N A O X M C T	A L U	CFA PS RSU SP IHX W1	PI MPMB AT	PP KBN LR F2 OTS G G	B U T
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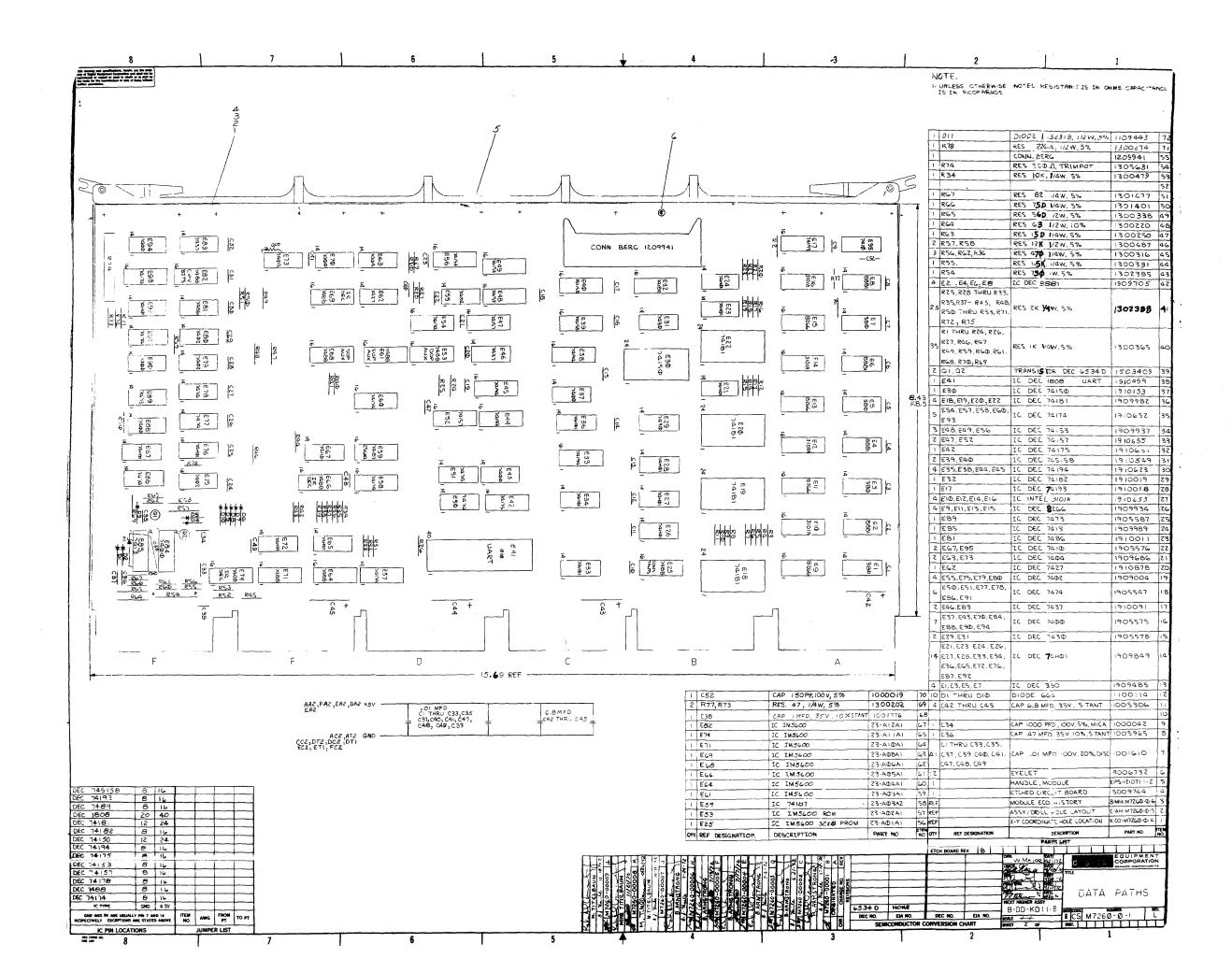
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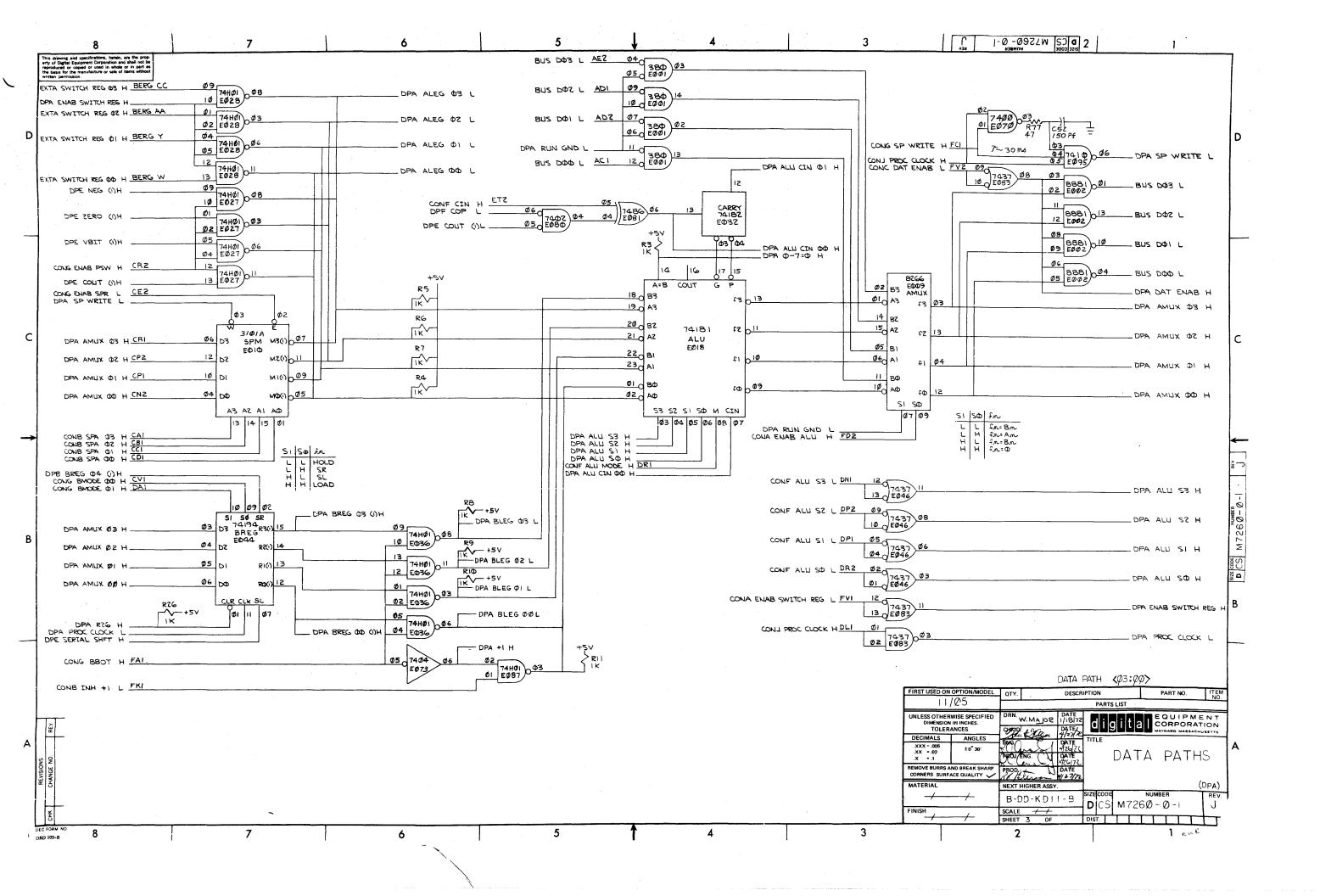
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PG-1	240	D7-5 106	J2-1A			34	
a7-1	245	D-8-1 156	J2-2	262	-	35	
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005-1		DE-1 250	J2+6	263		74	
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CE1-1	317	DC-18 143	R1-3	222	SB2-6 @	24	
CE1-2	327	00-2 123	R1=4	223	SB2-7 2	31	
CE1-3	326	Do-3 124	R1-5	224	\$82-8 3	330	
CE2-1	315	DQ=4 125	R1=6	225	SBE-1 0		
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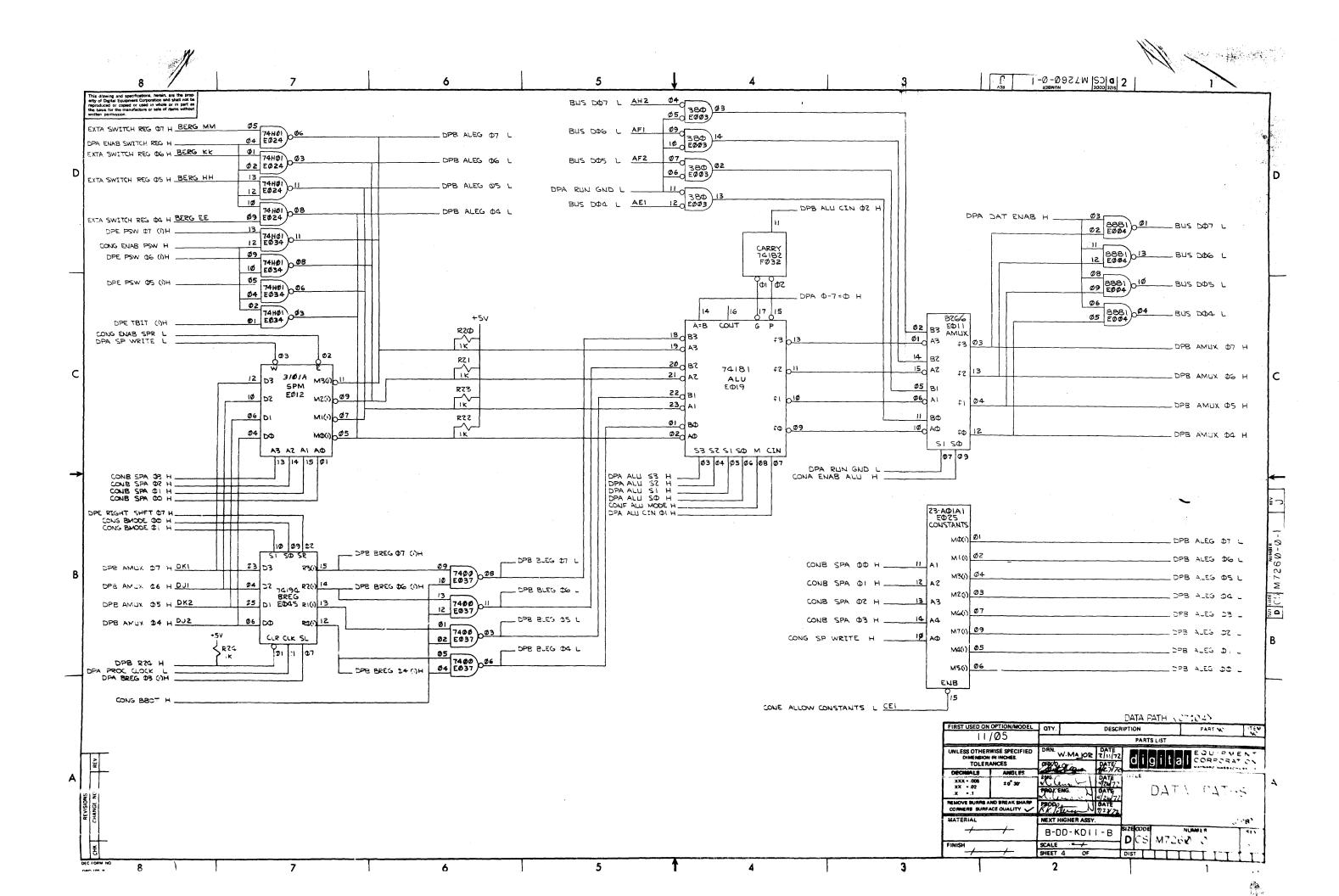
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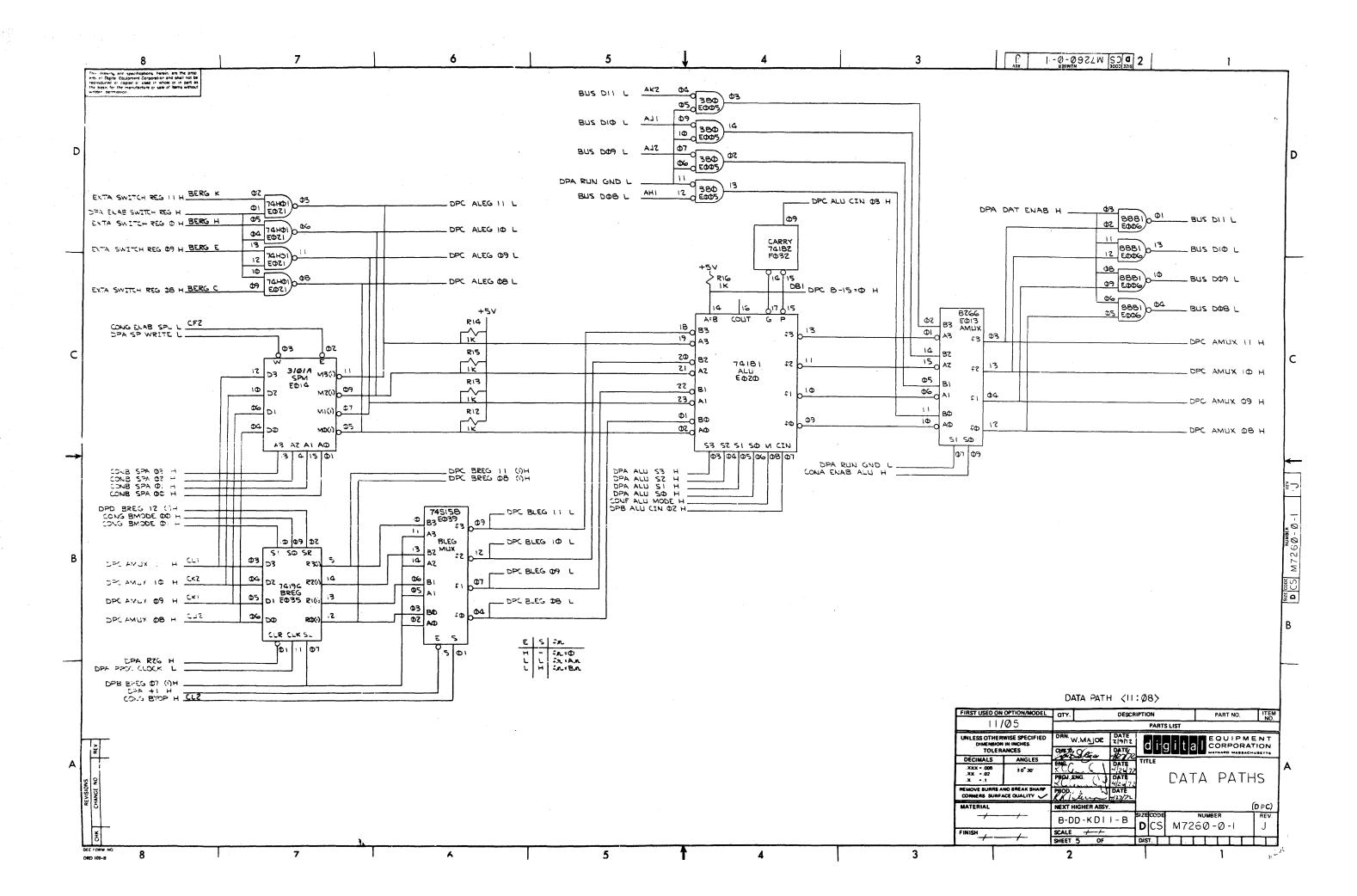
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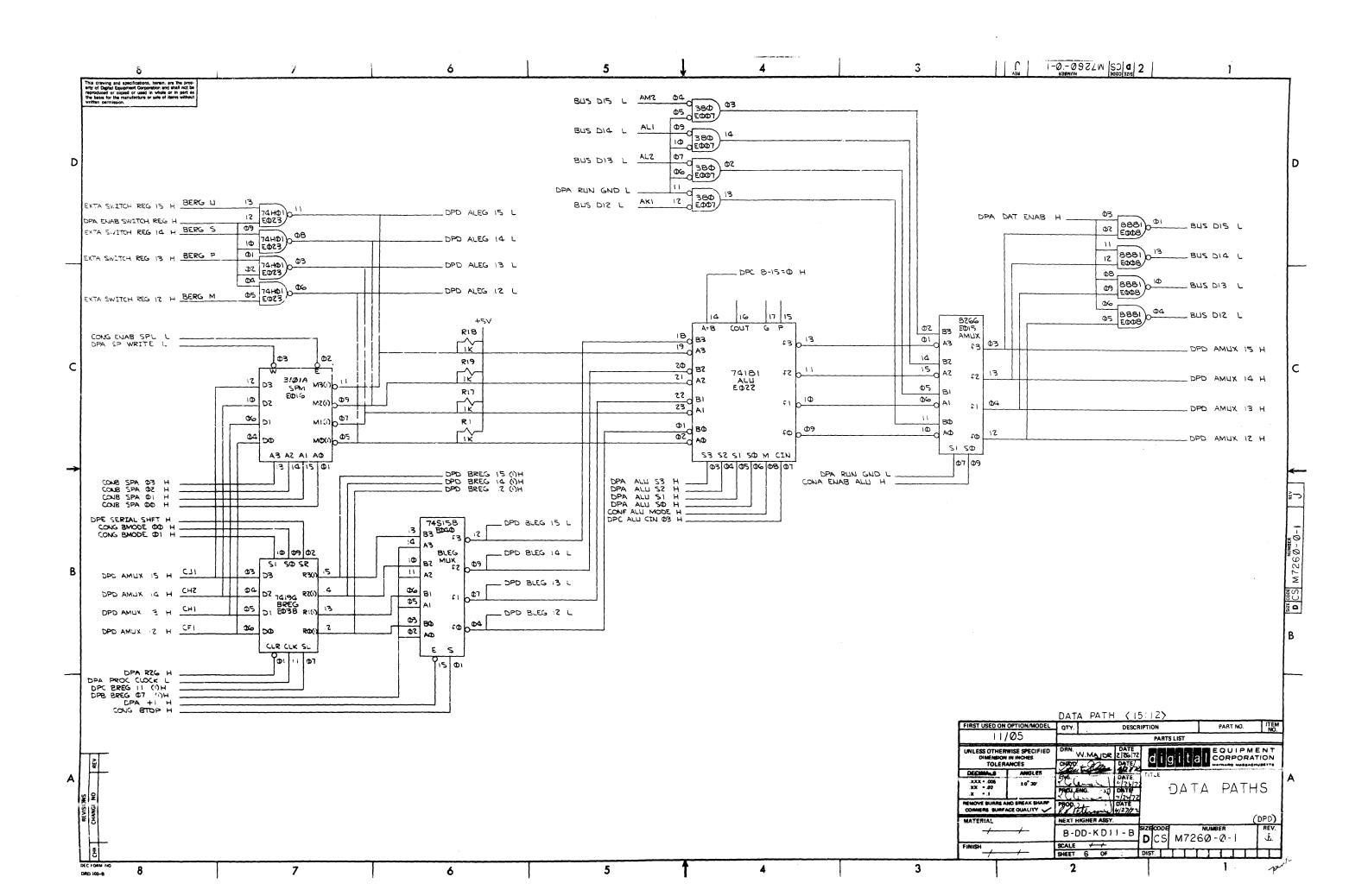
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COPYRIGHT © DIGITAL EQUIPMENT CORPORATION"									SCALE +-+ SHEET   OF    DIST.								_T —	<u> </u>								
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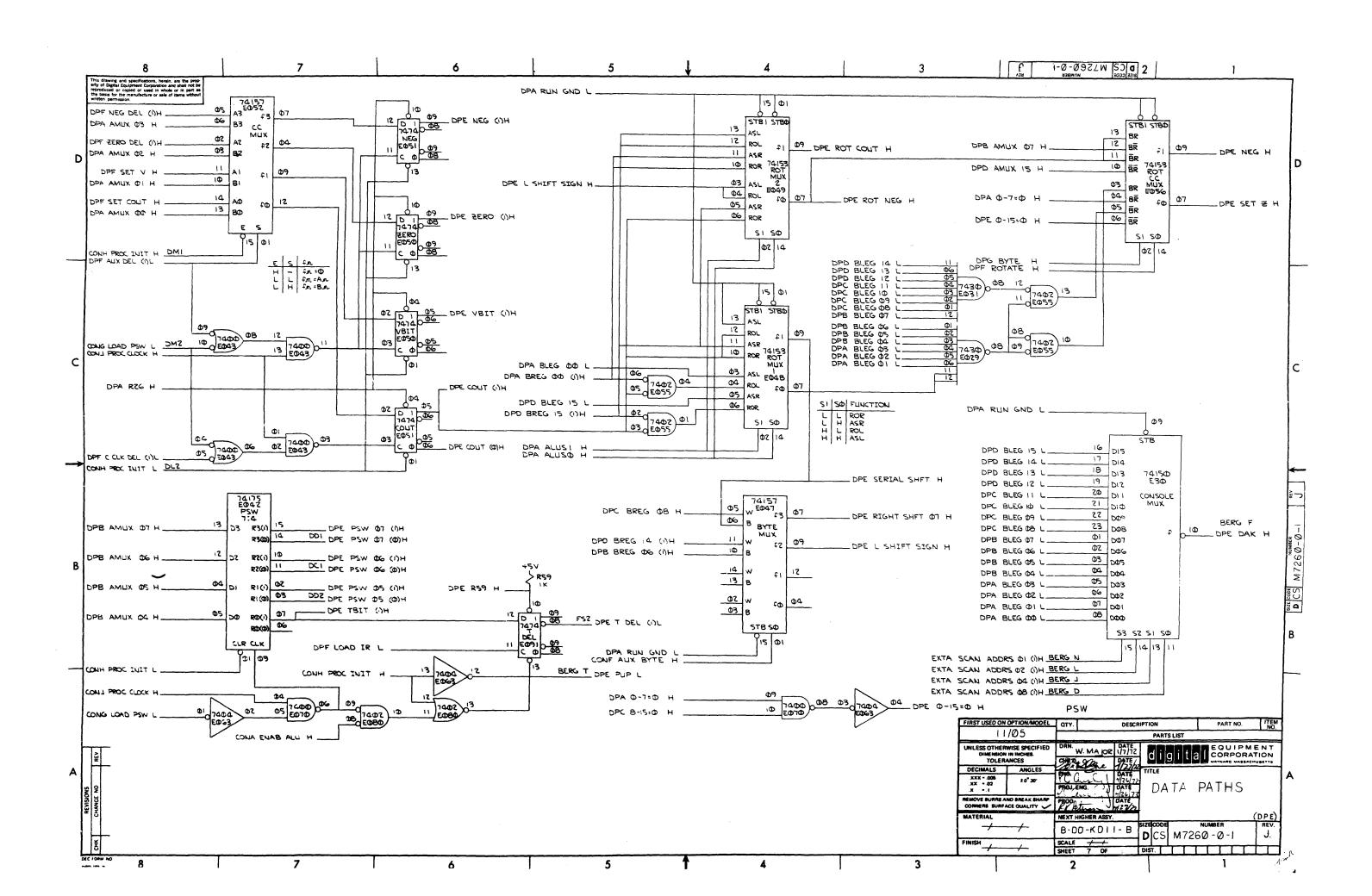


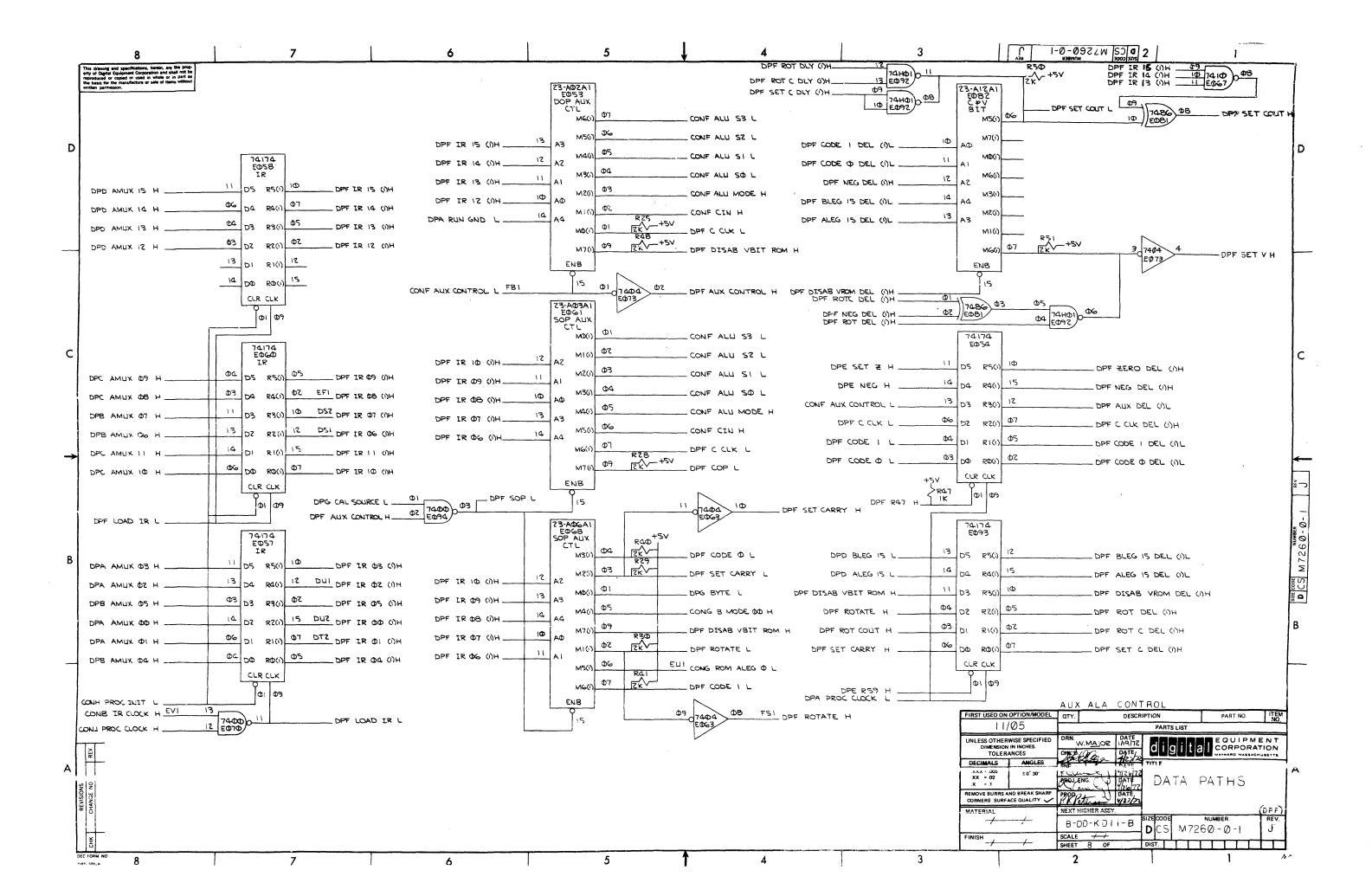


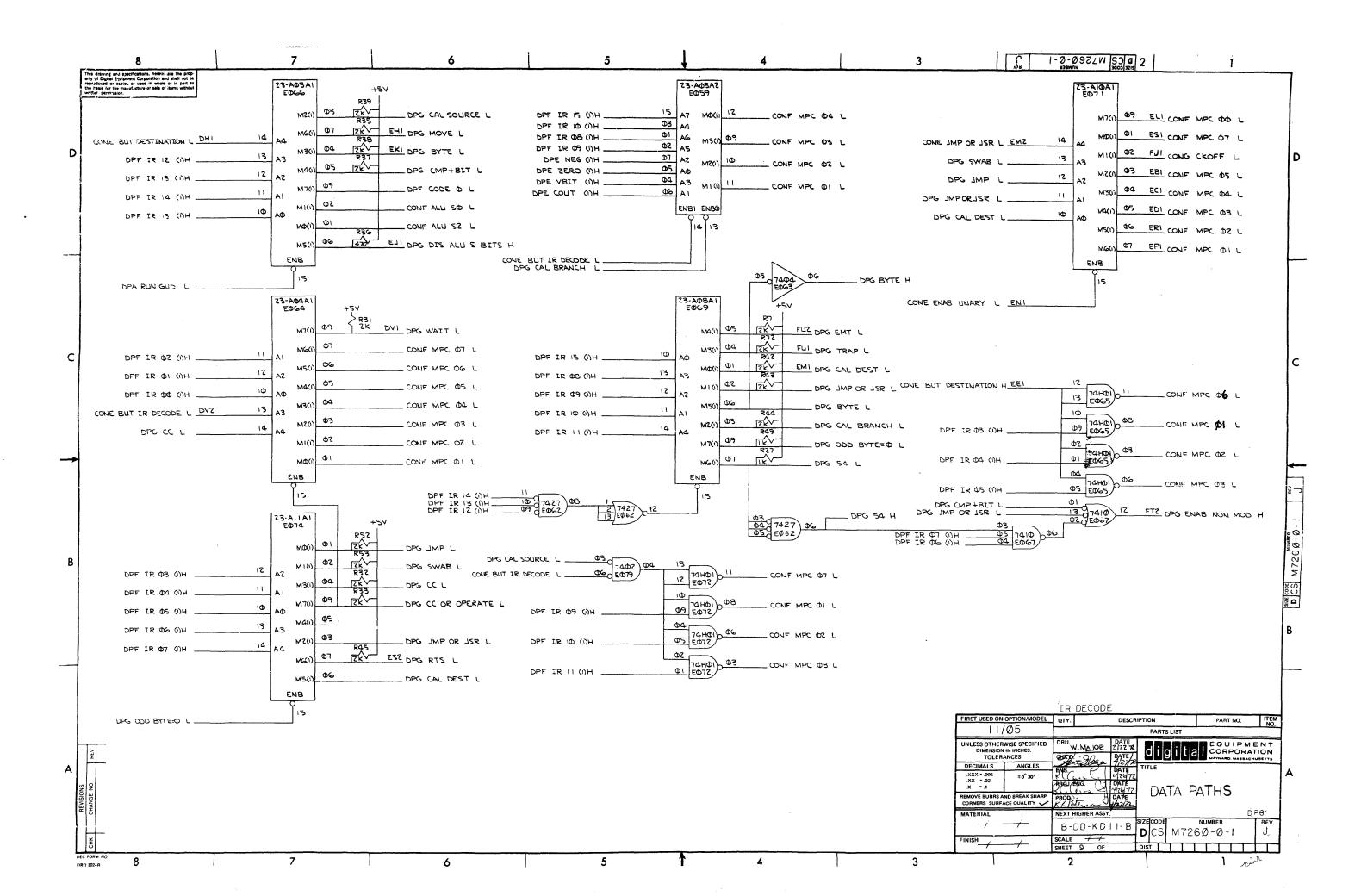


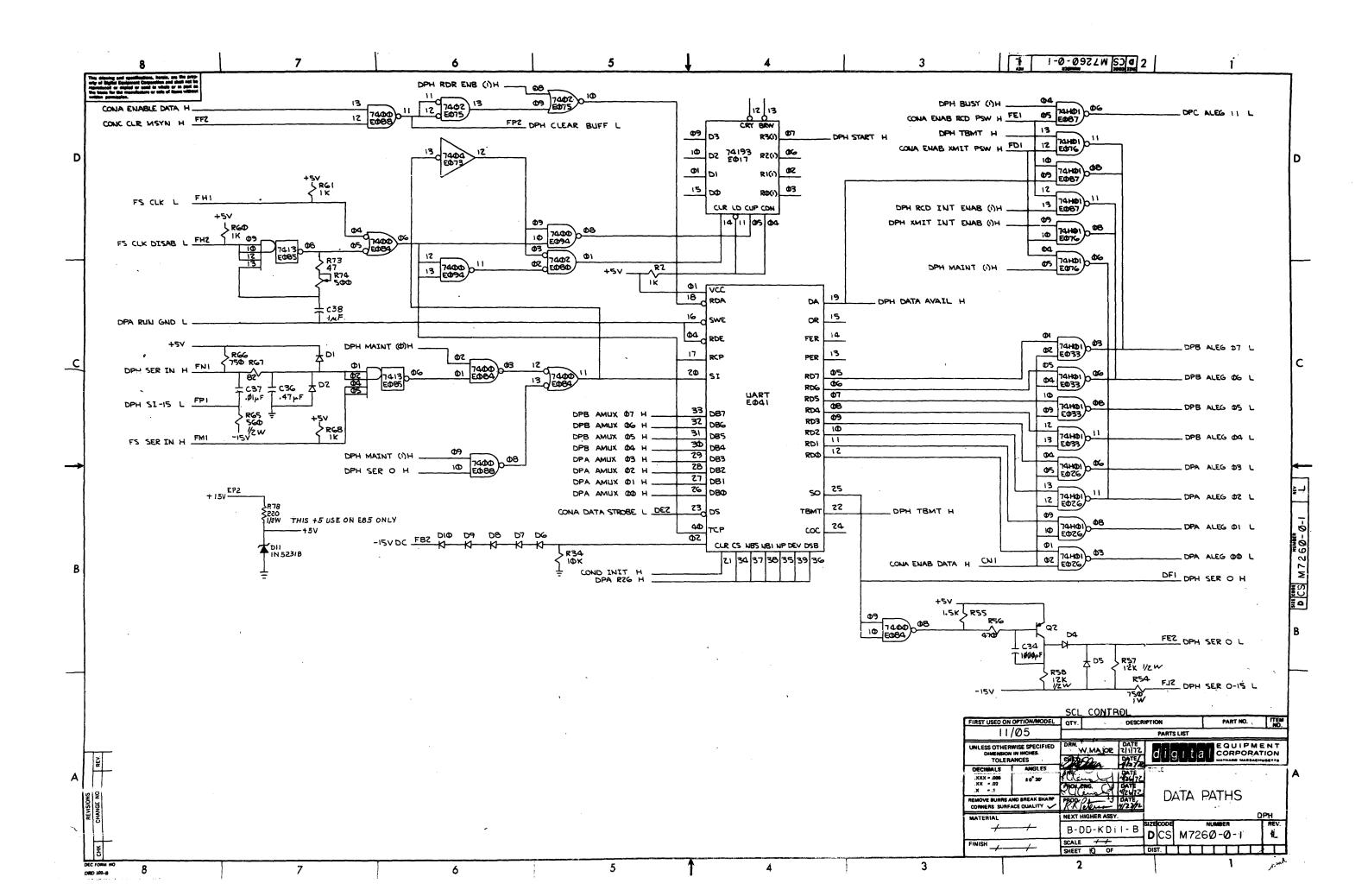


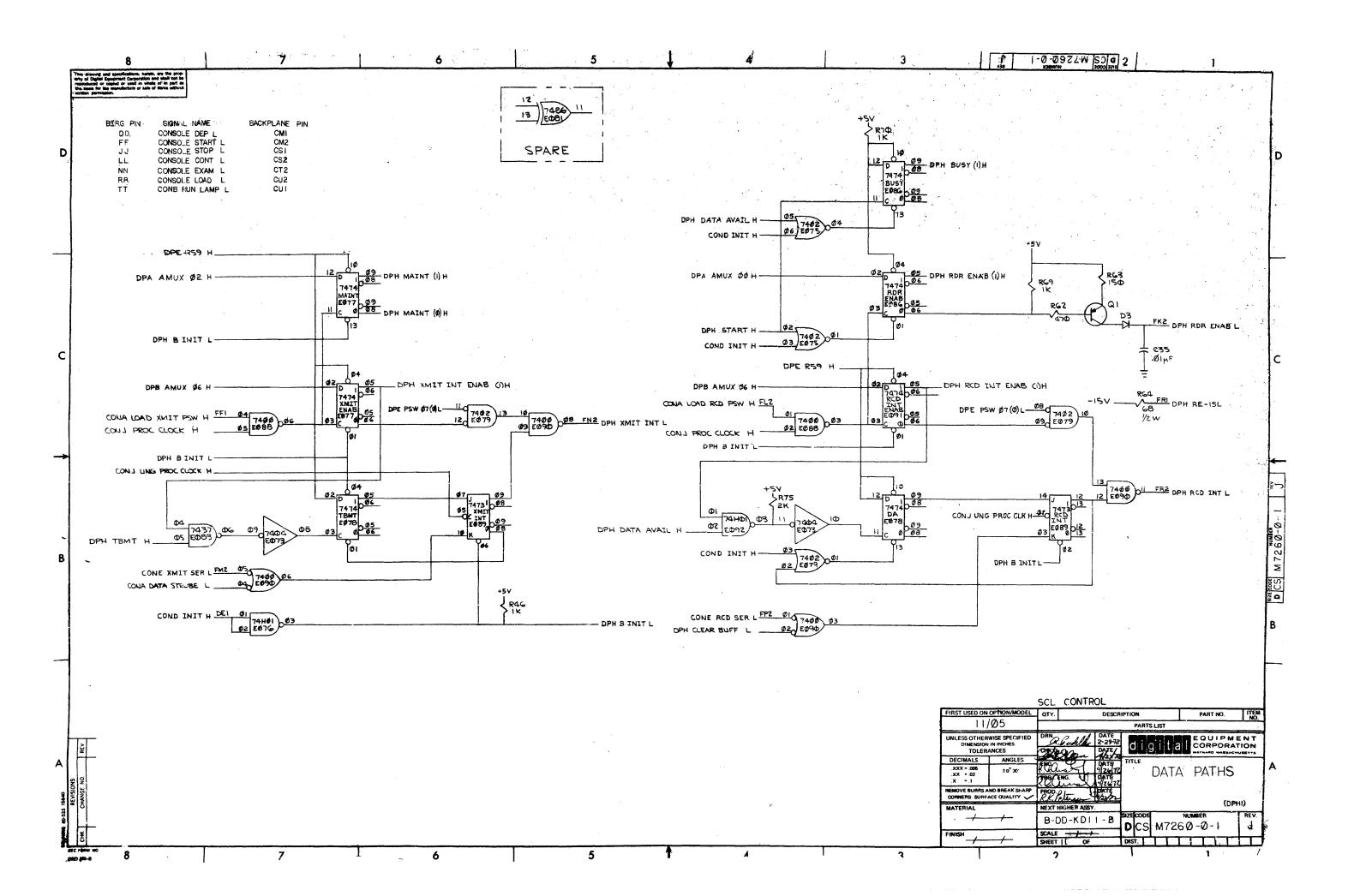












REV. Ø

AØZA1

19-MAY-72

```
/( #Y8 (PIN #9) DPA ALEG Ø2 L
                                  +/( #Y7 (PIN #7) DPA ALEG 03 L
                                  ++/( =Y6 (PIN #6) DPA ALEG ØØ L

+++/( =Y5 (PIN #5) DPA ALEG Ø1 L

++++/( =Y4 (PIN #4) DPB ALEG Ø5 L

++++/( =Y3 (PIN #3) DBP ALEG Ø4 L
                                   ** * * * * * / ( = Y2 (PIN #2) DPB ALEG 06 L
                                   ++++++/( =Y1 (PIN #1) DPB ALEG 07 L
  OCTAL DECIMAL
                                                       OCTAL
ADDRESS ADDRESS
                       EDCBA
                                  ******
                                                        DATA
   000
                        00000
                                   11111111
                                                        377
   001
                       00001
                                  01001110
                                                        116
                                                                     K=207 SWR ADDRESS I,E, 177570=000207,BAR
                                                                     K=64 RECVR' VECTOR
K=360 CONDITION CODE MASK (CCM=1)
                                  01110011
   002
                       00010
                                                        163
                                  00001111
   003
                       00011
                                                        Ø17
                                                                     K=30 EMT VECTOR
K=14 T BIT VECTOR
   004
                       00100
                                  10111011
                                                        273
   005
                       00101
                                  00111111
                                                        Ø77
                                  11111111
   006
                       00110
                                                        377
   007
                                                        377
                       00111
                                  11111111
                                                                     K=20 IOT VECTOR
K=34 TRAP VECTOR
                       01000
                                                        373
   010
                                  11111011
                       01001
                                                        Ø73
                                  00111011
   011
                                                        377
   Ø12
              10
                       01010
                                  11111111
                                                        377
   013
                       01011
                                  11111111
                                                                     K#10 RESERVED (ILLEGAL) INSTRUCTION VECTOR K#4 BUS ERROR OR STACK OVERFLOW ERROR
                                                        277
                       01100
                                   10111111
   014
   015
                                   01111111
                                                        177
                        01101
                                  11111111
                                                        377
   Ø16
                        01110
                                  11111111 0111 0111 0111
                                                        377
   017
                        01111
                        10000
                                                                     K#24 PWR FAIL VECTOR
   220
                                                        1,73
                                                        377
   021
                        10001
                                  11111111
                                   11111101
   Ø22
                        10010
                                                        375
                                                                     KH100 LCLK INT VECTOR
    023
                        10011
                                   11111111
                                                        377
                        10100
                                   11111111
                                                        377
    Ø25
                        10101
                                   11111111
                                                        377
                        10110
                                                        377
                                   11111111
    Ø27
              23
                        10111
                                                        377
    030
                        11000
                                                        377
    031
              25
                        11001
                                   11111111
                                                        377
                                                        377
377
    032
                        11010
                                   11111111
    033
              27
                        11011
                                   11111111
                                                        377
    034
              28
                        11100
                                   11111111
              29
                                                        363
377
    035
                                                                     K#60 TRANSMIT VECTOR
                                  11110011
                        11101
              30
   036
                        11110
                                  11111111
              31
    Ø37
                                  11111111
                        11111
                        ....
                        ++++/( A(PIN #10) IS CONG SP WRITE H
                        ***/( B(PIN #11) IS CONG ROM SPA 00 H

**/( C(PIN #12) IS CONG ROM SPA 01 H

*/( D(PIN #13) IS CONG ROM SPA 02 H
```

SHEET 3 OF 15

ROM LISTING M7260

REV. Ø

/( EY8 (PIN #9) DPF DISAB V BIT ROM H +/( =Y7 (PIN #7) CONF ALU S3 L ++/( =Y6 (PIN #6) CONF ALU S2 L * * * * / ( = Y5 (PIN #5) CONF ALU 51 *****/( =Y4 (PIN #4) CONF ALU SØ L *****/( =Y3 (PIN #3) CONF ALU MODE H ****/( =Y2 (PIN #2) CONF CIN H ******/( =Y1 (PIN #1) DPF C CLK L OCTAL DECIMAL ****** OCTAL ADDRESS ADDRESS EDCBA ******* DATA MOV FRA CMP FEA MINUS B MINUS 1 BIT FEAB BIC FEA.BARB 10111101 1010101 BIS FRA+B ADD FEA PLUS B Ø6Ø RI (RESERVED INSTRUCTION) MOV(B) 2Ø5 Ø12 CMP(B) BIT(B) BIČ(B) Ø16 Ø17 SUB FRA PLUS B NOT ACCESSED MOV - NOT ACCESSED
CMP - NOT ACCESSED
BIT - NOT ACCESSED Ø22 BIC - NOT ACCESSED BIS - NOT ACCESSED ADD - NOT ACCESSED RI - NOT ACCESSED RI - NOT ACCESSED Ø31 MOV(B) - NOT ACCESSED CMP(B) - NOT ACCESSED BIT(B) + NOT ACCESSED Ø33 BIC(B) - NOT ACCESSED Ø35 BIS(B) - NOT ACCESSED ØØØØØØØØØ SUB - NOT ACCESSED Ø37 RI - NOT ACCESSED .... ****/( A(PIN #10) IS DPF IR 12 (1)H ***/( B(PIN #11) IS DPF IR 13 (1)H

**/( C(PIN #12) IS DPF IR 14 (1)H */( D(PIN #13) IS DPF IR 15 (1)H /( E(PIN #14) IS DPA RUN GND L

/( E(PIN #14) IS CONG ROM SPA 03 H

23-A02A1

```
A0341
            19=MAY-72
                                                                                                  REV', Ø
                                23-AØ3A1
                                   /( #Y8 (PIN #9) DPF COP L
                                  */( =Y7 (PIN #7) DPF C CLK L

**/( =Y6 (PIN #6) CONF CIN H

***/( =Y6 (PIN #5) CONF ALU MODE H

****/( =Y4 (PIN #4) CONF ALU SØ L
                                   +++++/( =Y3 (PIN #3) CONF ALU S1 L
                                   +++++/( =Y2 (PIN #2) CONF ALU $2 L
                                   ******/( =Y1 (PIN #1) CONF ALU 53 L
   OCTAL DECIMAL
                                                        OCTAL
ADDRESS ADDRESS
                        EDCBA
                                   ******
                                                        DATA
                                   11111111
                        00000
                                                        377
                        00001
                                   11111111
                                                        377
                        00010
                                   10011100
                                                        234
                                                                      CLR ALUF = ZERO
                                                        251
277
                                                                     NEG CIN ALUF=A MINUS B MINUS 1
    003
                        00011
                                   10101001
    004
                        00100
                                   10111111
                                   11111111
    005
                        00101
                                                        377
    206
                        00110
                                   11111111
                                                        377
    007
                        00111
                                   11111111
                                                        377
    212
                        01000
                                   11111111
                                                        377
                                                        377
    011
                        01001
                                   11111111
                                                                     INC CIN ALUF=A ARITH
SBC CIN ALUF=A MINUS 1
    212
               10
                        01010
                                   11100000
                                                        340
    013
                        01011
                                   00101111
                                                        057
                                                        267
377
377
377
377
                                                                      ASR
    014
              12
                        01100
                                   10110111
    015
               13
                        01101
                                   11111111
    016
              14
                        01110
                                   11111111
              15
    017
020
                        01111
10000
                                   11111111
               16
                                   11111111
                                                        377
    Ø21
Ø22
                        10001
                                  1,7
                                                                     COM ALUF=NOT B
              18
                        10010
                                                        225
                        10011
                                   00000000
                                                                      ADC CIN ALUF A ARITH
    023
                                                        000
                                   10111011
                                                                      ROL
    024
                        10100
                                                        273
               20
               21
22
    025
                        10101
                                                        377
                                   11111111
                                   11111111
                                                        377
                        10110
    Ø27
                        10111
                                                        377
               23
                                   11111111
    030
                        11000
                                   10011010
                                                        232
                                                                     SWAB NOT B CLOCK LOW
    031
               25
                        11001
                                   11111111
                                                        377
                                                                     DEC CIN ALUF=A MINUS 1
                                   11001111
    Ø32
               26
                        11010
                                                        317
    Ø33
               27
                        11011
                                   10010000
                                                        22Ø
                                                                      TST ALUFFAL
    034
                        11100
                                   10110011
                                                        263
                                                                      ASL
    035
               29
                        11101
                                   11111111
                                                        377
                                                        377
    Ø36
               50
                                   11111111
                                   1111111
    Ø37
                        11111
                                                        377
                        ++++/( A(PIN #10) IS DPF IR 08 (1)H

+++/( B(PIN #11) IS DPR IR 09 (1)H

++/( C(PIN #12) IS DPF IR 10 (1)H

+/( D(PIN #13) IS DPF IR 07 (1)H

/( E(PIN #14) IS DPF IR 06 (1)H
```

```
SHEET 5 OF 15
                                                        ROM LISTING M7260
                                                                                REV', Ø
                         25-AØ4A1
A 2 4 A 1
          19-MAY-72
                           OCTAL DECIMAL ADDRESS ADDRESS
                            *******
                                             OCTAL
                            ******
                                             DATA
                   EDCBA
                   00000
                                                        CC OPR
   000
                           11001011
                                             313
                                             313
                                                        CC OPR
                   00001
   001
                            11001011
                   00010
                                                        CC OPR
   002
                            11001011
                                             313
                                                        CC OPR
                                             313
                   00011
                            11001011
   003
                                                        CC OPR
   004
                            11001011
                                             313
                   00100
                            11001011
                                             313
                                                        CC OPR
   005
                   00101
                                                        CC OPR
   006
                   00110
                            11001011
                                             313
                                                        CC OPR
   007
                   00111
                            11001011
                            11111111
                                             377
                                                        RI (RESERVED INSTRUCTION)
   010
                   01000
                                                        NOT ACCESSED FOR NOT IR DECODE
   Ø11
                   01001
                            11111111
           10
                   01010
                            11111111
                                             377
                                                        RĮ
                                                        R Į
   014
                   01100
                           11111111
                                             377
   Ø15
                   01101
                           11111111
                                             377
                                                        RΙ
                   Ø1110
Ø1111
   Ø16
                            11111111
                                             377
                                                        RΙ
   Ø17
                            11111111
                                             377
                                                        RI
                                                        HALT BUT IR DEC
WAIT BUT IR DEC
                            11101111
   020
                   10000
                                             357
                   10001
   021
                           01100110
                                             146
   022
           18
                   10010
                           10100010
                                             242
                                                        IOT
                                                        RESET
                            10001000
   023
           19
                   10011
                                             210
                                                        RTI
   024
           20
                   10100
                            10110100
                                             264
                                                        BREAKPOINT TRAP DECODE
   025
           21
                   10101
                            11101101
                                             355
   026
                   10110
           22
                           11111111
                                             377
                                                        RŢ
   027
           23
                   10111
                           11111111
                                             377
                                                        RI
                                             377
   030
           24
                   11000
                           11111111
           25
                                                        WAIT, BUT IR DEC, BAR
   031
                   11001
                                             177
                           01111111
   032
           26
                   11010
                                             377
                           11111111
           27
                   11011
   033
                                                        RI
                                             377
                           11111111
           28
   034
                   11100
                                                        RI
                           11111111
                                             377
           29
                   11101
                                                        RĮ
   Ø35
                           11111111
                                             377
   036
           30
                                                        Rİ
                                             377
   037
           31
                                             377
                                                        RI
                   11111
                           11111111
                   * + + * / ( A (PIN #10) IS
                                          DPF IR 00 (1)H
                   ***/( B(PIN #11) IS DPF IR 02 (1)H
                   ++/( C(PIN #12) IS DPF IR Ø1 (1)H
                   +/( D(PIN #13) IS CONE BUT IR DECODE L
                   /( E(PIN #14) IS DPG CC L
```

```
/( #Y8 (PIN #9) DPF CODE Ø L
                                  •/( #Y7 (PIN #7) DPG MOVE L
                                   ++/( =Y6 (PIN #6) DPG DIS ALU S BITS H
                                  ***/( =Y5 (PIN #5) DPG CMP OR BIT L
****/( =Y4 (PIN #4) DPG BYTE L
*****/( =Y3 (PIN #3) DPG CAL SOURCE L
*****/( =Y2 (PIN #2) CONF ALU SØ L
******/( =Y1 (PIN #1) CONF ALU S2 L
OCTAL DECIMAL ADDRESS ADDRESS
                                   ******
                                                        OCTAL
                        EDCBA
                                   ******
                                                        DATA
                                                                     BR/CC (BRANCH OR CC OPERATOR)
BR/CC
   000
                        00000
                                  11011111
                                                        337
                        00001
    001
                                  11011111
                                                        337
                                                                     BIC
    002
                        00010
                                  11011011
                                                        333
    003
                        00011
                                  11010011
                                                        323
                                                                     BIC(B)
    004
                        00100
                                  11001011
                                                        313
    005
                        00101
                                   11000011
                                                                     CMP(B)
                                                        303
    006
                        00110
                                  01011011
                                                                     ADÓ
                                                        133
    007
                        00111
                                  01111000
                                                                     SUB DIS ALU BITS H
                                                        170
    010
                        01000
                                  10011011
                                                        233
                                                                     MOV
    011
                        01001
                                  10010011
                                                        223
                                                                     MOV(B)
    012
                        01010
                                   11011011
                                                        333
                                                                     BIS
    013
                        01011
                                  11010011
                                                        323
                                                                     BIS(B)
                                                                     BIT(B)
    014
                        01100
                                   11001011
                                                        313
    015
              13
                        01101
                                   11000011
                                                        3Ø3
                                                                     RI TRAP
    016
                        01110
                                   11011111
                                                        337
    217
              15
                        01111
                                   11011111
                                                        337
                                                                     BR/CC
    020
              16
                        10000
                                   11011111
                                                        337
                                                                     BR/CC
              17
    Ø21
                        10001
                                  11011111
                                                        337
                                                                     BIC(B)
                       10010
    Ø22
                                  11011011
                                                        333
                                  11010011
    Ø 23
                                                        323
                       10100
               20
                                  11001011
                                                                     CMP
    024
                                                        313
                                                                     CMP(B)
              21
22
                                  11000011
    025
                                                        303
                        10110
    026
                                  01011011
                                                                      ADO
                                                        133
                        10111
                                  01011011
    Ø27
              23
                                                        133
                                                                      ADÖ
                        11000
                                                        233
    030
                                  10011011
                                                                      MOV
                                   10010011
                                                                     MOV(B)
                                                        223
    032
               26
                        11010
                                   11011011
                                                        333
                                                                     BIS
    Ø33
              27
                        11011
                                   11010011
                                                        323
                                                                     8.15(B)
                                   11001011
                                                                     BIT(B)
    034
               28
                        11100
                                                        313
    035
              29
                        11101
                                   11000011
                                                        303
    Ø36
              30
                        11110
                                  11011111
                                                        337
                                                                     RI TRAP
                                                                     RI TRAP
    Ø37
                        11111
                                   11011111
                                                        337
                        ....
                        ++++/( A(PIN #10) IS DPF IR 15 (1)H
                       ***/( B(PIN #11) IS DPF IR 14 (1)H

**/( C(PIN #12) IS DPF IR 13 (1)H

*/( D(PIN #13) IS DPF IR 12 (1)H

/( E(PIN #14) IS CONE BUT DESTINATION L
```

```
SHEET 7 OF 15
AØ6A1
                                   23=AØ6A1
                                                                            ROM LISTING M7260
                                                                                                             REV', Ø
              19=MAY=72
                                      /( #Y8 (PIN #9) DPF DISAB V BIT ROM H
                                      /( =Y8 (PIN #Y) DPF DISAB V DII NOME
+/( =Y7 (PIN #7) DPF CODE 1 L
+++/( =Y6 (PIN #6) CONG ROM ALEG Ø L
+++/( =Y5 (PIN #5) CONG B MODE ØØ H
++++/( =Y4 (PIN #4) DPF CODE Ø L
+++++/( =Y4 (PIN #3) DPF SET CARRY L
++++++/( =Y2 (PIN #2) DPF ROTATE L
++++++/( =Y1 (PIN #1) DPG BYTE L
++++++//
   OCTAL DECIMAL
                                      ******
                                                              OCTAL
ADDRESS ADDRESS
                          EDCBA
                                                              DATA
                                      *******
                          00000
                                      11111111
    000
                                                              377
                                                              377
    001
                          00001
                                      11111111
                          00010
    002
                                                              377
                                      11111111
                          00011
                                                                            SWAB DISAB V BIT ROM
    003
                                      10110110
                                                              266
                          00100
                                      11110101
                                                                             ROR
                                                              365
    ØØ5
                          00101
                                      11110101
                                                              365
                                                                             ASR
    006
                                      11100101
                          00110
                                                              345
                                                                             ROL
    007
                          00111
                                      11100101
                                                              345
                                                                             ASL
    010
                          01000
                                      10110111
                                                              267
    011
                  9
                          01001
                                      00110111
                                                                             INC
                                                              Ø67
                          01010
                                      11110011
                                                              363
                                                                             COM
    013
                          01011
                                      00111111
                                                              077
                                                                            DEC
    014
                          01100
                                      00000001
                                                                            BCC
                                                              001
    016
                          01110
                                      11111111
                                                              377
    017
                15
                          Ø1111
                                      11111111
                                                              377
    020
                                      000000001
                          10000
                                                              001
                                                                            BMI
    021
                          10001
                                                              377
                17
                                      11111111
                          10010
    022
                18
                                      11111111
                                                              377
                          10011
    023
                19
                                      11111111
                                                              377
    024
                          10100
                22
                                      00000001
                                                             ØØ1
377
                                                                            BVS
    Ø25
                21
                          10101
                                      11111111
    026
                22
                          10110
                                                              377
                                      11111111
    Ø27
                                                              377
                                      11111111
    030
                          11000
                                      01011111
                                                                             NEG
                                                             137
Ø77
    031
                25
                                                                             SBC
                          11001
                                      00111111
    032
                           11010
                                      00110111
                                                              067
                                                                             ADĈ
    033
                27
                          11011
                                      11110111
                                                              367
    034
                28
                           11100
                                                              377
                                      11111111
                29
    035
                          11101
                                                              377
    036
                30
                          11110
                                      11111111
                                                              377
    037
                31
                          11111
                           * * * * *
                          ****/( A(PIN #10) IS DPF IR 07 (1)H
                          ***/( B(PIN #11) IS DPF IR Ø6 (1)H

**/( C(PIN #12) IS DPF IR 10 (1)H

*/( D(PIN #13) IS DPF IR Ø9 (1)H

/( E(PIN #14) IS DPF IR Ø8 (1)H
```

```
/( #Y8 (PIN #9) DPG ODD BYTE # ØL
                                   */( *Y7 (PIN #7) DPG 54 L
**/( *Y6 (PIN #6) DPG BYTE L
                                    +++/( +Y5 (PIN #5) DPG EMT
                                   ****/( #Y4 (PIN #4) DPG TRAP L
*****/( #Y3 (PIN #3) DPG CAL BRANCH L
*****/( #Y2 (PIN #2) DPG JSR L
******/( #Y1 (PIN #1) DPG CAL DEST L
OCTAL DECIMAL ADDRESS ADDRESS
                                    ******
                                                         OCTAL
                        EDCBA
                                    *******
                                                         DATA
    000
                        00000
                                   01111111
                                                          177
                                                                       BPL
BGE
    001
                        00001
                                   11111011
                                                         373
    002
                        00010
                                    11111011
                                                         373
                                                                       BVC
    003
                        00011
                                    11111011
                                                         373
                                                                       BNE
    004
                        00100
                                    11111011
                                                          373
                                    11111011
                                                          373
                                                                       BHI
    005
                        00101
    006
                        00110
                                    11111011
                                                         373
                                                                       BGT
                        00111
01000
                                                         373
                                                                       BÇĈ
    887
                                    11111011
                                                         373
                                                                       BR
                                    11111011
    010
                                   11111011
11111011
11111011
                                                         373
                                                                       BMI
                        01001
    011
                        01010
                                                         373
                                                                       BLT
    012
                                                                       BÝŜ
                                                         373
                        01011
    013
                        Ø1100
Ø1101
    2114
                                    11111011
                                                         373
                                                                       BEO
                                   11111011
                                                         373
                                                                       BLÖS
    2115
                        Ø111Ø
Ø1111
    216
217
                                    11111011
                                                         373
                                                                       BLE
                                    11111011
                                                         373
                                                                       BCS
                                                                        JSR
    020
                        10000
                                   11111100
                                                          374
                                    11101111
                                                          357
                                                                       EMT
    Ø21
                        10001
                                                                       SOF (CC) ROR/ROL/ASR/ASL
    Ø 22
                        10010
                                    11111110
                                                          376
                                    11011110
                                                                       OPR (DST) ROR(B)/ROL(B)/ASR(B)/ASL(B)
    023
                        10011
                                                          336
                                                                       SOP (CC) CLR/COM/INC/DEC
OPR(DST) CLR(8)/COM(8)/INC(8)/DEC(8)
    024
                        10100
                                    11111110
                                                          376
    Ø25
                        10101
                                    11011110
                                                          336
                                    11111111
                                                                       RI RESERVED INST
    026
                        10110
                                                          377
                                                                       RI RESERVED INST
    027
               23
                        10111
                                                          377
                                    11111100
    030
                        11000
                                                          374
                                                                       JSR
                                                                       TRAP
    031
               25
                        11001
                                    11110111
                                                          367
                                                                       RI RESERVED INST
RI RESERVED INST
SOP NEG/ADC/SBC/TST
    032
               26
                        11010
                                    11111111
                                                          377
    Ø33
               27
                        11011
                                    11111111
                                                          377
                                    10111110
    034
               28
                        11100
                                                          276
                                                                       OPR(DST) NEG(B)/ADC(B)/SBC(B)/TST(B)
    035
               29
                        11101
                                    10011110
                                                          236
                                                                       RI RESERVED INST
RI RESERVED INST
                                                         377
    036
               30
                        11110
                                    11111111
    037
                        11111
                                    11111111
                         ....
                        ****/( A(PIN #10) IS DPF IR 15 (1)H
                        ***/( B(PIN #11) IS DPF IR 10 (1)H

**/( C(PIN #12) IS DPF IR 09 (1)H

*/( D(PIN #13) IS DPF IR 08 (1)H
                         /( E(PIN #14) IS DPF IR 11 (1)H
```

```
9 OF 15
                                                             ROM LISTING M7260
                                                                                       REV, Ø
                                                                                                        SHEET
A1ØA1
           19-MAY-72
                            25-A10A1
                               /( #Y8 (PIN #9) CONF MPC 00 L
                               */( *Y7 (PIN #7) CONF MPC 01 L
*+/( *Y6 (PIN #6) CONF MPC 02 L
*+*/( *Y5 (PIN #5) CONF MPC 03 L
                               ****/( #Y4 (PIN #4) CONF MPC Ø4 L
                               *****/( =Y2 (PIN #2) CONG CKOFF L
                               ******/( =Y1 (PIN #1) CONF MPC Ø7 L
OCTAL DECIMAL ADDRESS ADDRESS
                                                 OCTAL
                     EDCBA
                               * * * * * * * *
                                                 DATA
   ØØZ
                     00000
                               11111111
                                                 377
   001
                     00001
                               11111111
   002
                     00010
                               11111111
                                                 377
   003
                     00011
                               1111111
                                                 377
                               11111111
   004
                     00100
                                                 377
                              11111111
   005
                     00101
                                                 377
   000
                     ØØ11Ø
                               11111111
                                                 377
   007
                     00111
                                                 377
                                                             JMP BADR TO J=1 @204
                              11011111
   010
                     01000
                                                 337
                     01001
   011
                               11111111
                                                 377
                                                             JMP BADR TO J=1 @204
                              11011111
   012
             1 14
                     01010
                                                 337
   013
                     01011
                              11111111
                                                 377
                                                             JSR BADR TO J2-1 @ 212
                     01100
   014
             12
                              10101111
                                                 257
   015
                                                 377
377
                     01101
                               11111111
                                                             NOT JMP OR JSR FALL THRU TO D1-2 @ 200
   016
                     01110
                              11111111
   017
                                                 377
                     01111
                               11111111
   020
                     10000
             14
                              11111111
                                                 377
   021
                     10001
                                                 377
                              11111111
   922
                     10010
                                                 377
                               11111111
   Ø23
                              11111111
                     10011
                                                 377
   024
                     10100
                                                 377
   025
                     10101
                                                 377
                               11111111
                               11010111
   Ø26
                     10110
                                                 327
                                                             SWAB BADR Ø24 INOR NEXT
   027
             23
                     10111
                               11111111
                                                 377
   030
                     11000
                               01101111
                                                 157
                                                             JMP BADR Ø11 INOR NEXT
   031
             25
                     11001
                               11111111
                                                 377
   Ø32
             26
                     11010
                              01101111
                                                 157
                                                             JMP BADR Ø11 INOR NEXT
   033
             27
                     11011
                              11111111
                                                 377
   034
             28
                     11100
                              01101111
                                                 157
                                                             JSR BADR Ø11 INOR NEXT
   Ø35
             29
                     11101
                              11111111
                                                 377
                                                 356
                                                             SOP BADR 210 INOR NXT
UNARY AND NOT JMP, JSR, SWAB
   Ø36
             30
                     11110
                              11101110
   037
             31
                     11111
                              11110101
                                                 365
                     ....
                     ++++/( A(PIN #10) IS DPG CAL DEST L
                     ***/( B(PIN #11) IS DPG JMP L DR JSR L **/( C(PIN #12) IS DPG JMP L
                     +/( D(PIN #13) IS DPG SWAB [
                     /( E(PIN #14) IS CONG JMP OR JSR L
```

REV', Ø

/( = Y8 (PIN #9) DPG CC OR OPERATE L
+/( = Y7 (PIN #7) DPG RTS L
++/( = Y6 (PIN #6) DPG CAL DEST L
+++/( = Y5 (PIN #5)
++++//( = Y4 (PIN #4) DPG CC L
+++++//( = Y3 (PIN #3) DPG JMP L CR JSR L
+++++//( = Y2 (PIN #2) DPG SWAR L

			*****// =	12 (PIN #2) DP	G SWAB L
					PG JMP L
OCTAL	DECIMAL		******	OCTAL	~
ADDRESS	ADDŘESS	EDCBA	*******	DATA	
ØØØ	Ø	ଉପ୍ପପ୍ର	0111111	177	OPR(HALT/WAIT/RTI/BK/IOT/TR)
001	1	00001	11111111	377	RI
002	Ž	00010	1111111	377	RŢ.
003	3	00011	11111111	377	RÏ
204	4	00100	11111111	377	Rİ
005	5	00101	1111111	377	RÌ
ØØ6	6	00110	1111111	377	RÍ
ØØ7	7	00111	11111111	377	RÎ
010	8	01000	11011010	332	JMP MODE Ø
011	9	01001	11011010	332	JMP MODE 4
Ø1,2	10	01010	11011010	332	JMP MODE 2
013	Ĩ1	01011	11011010	332	JMP MODE 6
014	12	01100	11011010	332	JMP MODE 1
015	13	01101	11011010	332	JMP MODE 5
Ø16	14	01110	11011010	332	JMP MODE 3
Ø1,7	15	01111	11011010	332	JMP MODE 7
020	16	10000	10111111	277	RTS NOT DPG CC OR DPR L
021	17	10001	01110111	167	CC OPR 240
Ø22	18	10010	11111111	377	RI
Ø23	19	10011	01110111	167	CC OPR 26Ø
024	20	10100	11111111	377	R I
Ø25	21	10101	01110111	167	CC OPR 24Ø
Ø26	22	10110	11111111	377	RI
027	23	10111	01110111	167	CC OPR 260
Ø3Ø	24	11000	11011101	335	SWAB MODE Ø
Ø31	25	11001	11011101	335	SWAB MODE 4
· Ø32	26	11010	11011101	335	SWAB MODE 2
Ø33	27	11011	11011101	<b>33</b> 5	SWAB MODE 6
Ø34	28	11100	11011101	335	SWAB MODE 1
Ø35	29	11101	11011101	335	SWAB MODE 5
Ø36	30	11110	11011101	335	SWAB MODE 3
037	31	11111	11011101	335	SWAB MODE 7
	•				

****/( A(PIN #10) IS DPF IR 05 (1)H ***/( B(PIN #11) IS DPF IR 04 (1)H **/( C(PIN #12) IS DPF IR 03 (1)H */( D(PÎN #13) IS DPF IR 06 (1)H /( E(PÎN #14) IS DPF IR 07 (1)H

SHEET H OF 15 A12A1 19=MAY=72 23-A12A1 ROM LISTING M7260 REV' Ø

/( #Y8 (PIN #9) OCTAL DECIMAL ADDRESS ADDRESS DATA EDCBA ****** INC OR ADC Ø ADD OR SUB DEC OR SBC CMP OR NEG INC OR ADC ADD OR SUB DEC OR SEC INC OR ADC ADO OR SUB DEC OR SEC Ø12 INC OR ADC ADD OR SUB DEC OR SBC CMP OR NEG Ø15 Ø17 Ø1111 INC OR ADC ADD OR SUB Ø21 277 277 377 377 377 377 377 DEC OR SBC INC OR ADC 22 DEC OR SEC Ø26 INC OR ADC ADD OR SUB Ø32 DEC OR SEC CMP OR NEG INC OR ADD ADD OR SUB DEC OR SEC 

> ++++/( A(PIN #10) IS DPF CODE 1 DEL (1)L +++/( B(PIN #11) IS DPF CODE 0 DEL (1)L ++/( C(PIN #12) IS DPE NEG DEL (1)H +/( D(PIN #13) IS DPD ALEG 15 DEL (1)L /( E(PIN #14) IS DPD BLEG 15 DEL (1)L

A03A2 19 MAY 72 23-A03A2 ROM LISTING M7260 REV. Ø SHEET 12 OF 15

```
/( =Y4 (PIN # 9) CONF MPC 03 L
                                      +/( =Y3 (PIN #10) CONF MPC 02 L
++/( =Y2 (PIN #11) CONF MPC 01 L
                                      +++/( #Y1 (PIN #12) CONF MPC 04 L
DOTAL DECIMAL ADDRESS ADDRESS
                                                    OCTAL
                     HGFEDCBA
                                      * * * *
                                                    DATA
    000
                     00000000
                                      1111
                                                    017
    001
                     00000001
                                      1111
                                                    017
    002
                2
                     00000010
                                      1111
                                                    017
    003
                     00000011
                                      1111
                                                    017
    004
                     00000100
                                      1111
                                                    017
                     00000101
    005
                5
                                      1111
                                                    Ø17
                                      1111
    006
                Ò
                     00000110
                                                    017
    007
                     00000111
                                     1111
                                                    917
                                                    017
    010
                     00001000
                                     1111
                                     1111
1111
1111
1111
1111
1111
                                                   Ø17
Ø17
                     00001001
    每11
               10
                     00001010
    Ø12
               11 12
                     00001011
                                                    017
    513
                     00001100
                                                    Ø17
    014
                                                    Ø17
Ø17
                     00001101
    015
               13
                                                               NOT ACCESSED
    016
               14
                     00001110
    017
                                      1111
                                                    Ø17
                                                                *****
                     00001111
               16
17
    020
                     88818888
                                      0011
                                                    003
                                      0011
                                                    003
    021
                     00010001
               19 20
    022
                                      0011
                                                    003
                     00010010
                                                    003
    Ø23
                     00010011
                                      0011
    024
                                     0101
                                                    005
                     00010100
    Ø25
               21
                     00010101
                                     5151
                                                    705
    026
               22
                     88610110
                                      0101
                                                    005
    027
               23
                     00010111
                                      0101
                                                    005
    030
                     00011000
                                      0101
                                                    005
    031
               25
                     00011001
                                      0101
                                                    005
               26
27
     032
                     00011010
                                      0101
                                                    ØØ5
     333
                     00011011
                                     0101
                                                    ØØ5
     034
               5 #
                     00011100
                                      0011
                                                    003
    1835
               24
                     00011101
                                      0011
                                                    ØØ3
                                                               HGE
               3Õ
    036
                     00011110
                                      0011
                                                    ØØ3
                                                                ****
    037
               31
                     00011111
                                     0011
                                                    ØØ3
```

```
00100000
                               0011
                                            003
040
          32
041
               00100001
          33
                               0101
                                            005
042
               00100010
                               0011
                                            003
          35
043
               00100011
                                            005
                               0101
               00100100
                               0011
                                            003
          € 5
045
               00100101
                               0101
                                            005
046
               00100110
                               0011
                                            003
047
               00100111
                               0101
                                            005
050
          40
                               0011
               00101000
                                            003
051
          41
                                            005
               00101001
                               0101
Ø52
          42
               ØØ1Ø1Ø1Ø
                               0011
                                            003
053
          43
               00101011
                               0101
                                            005
954
          44
               00101100
                               0011
                                            003
Ø55
          4 3
               90101101
                               0101
                                            005
                                                       RNE
256
          43
               00101110
                               0011
                                            003
                                                        ----
057
          4 '
               00101111
                               0101
                                            005
060
          413
               00110000
                               0011
                                            003
261
          4 39
               00110001
                               0101
                                            005
Ø62
          54
               00110010
                               0011
                                            003
          51
Ø63
               00110011
                               0101
                                            005
Ø64
               00110100
                               0101
                                            005
065
               00110101
                               0101
                                            005
966
               00110110
                               0101
                                            005
          55
Ø67
               00110111
                               0101
                                            005
070
          56
               00111000
                               0101
                                            005
          57
071
               00111001
                                            005
                               0101
072
          58
               00111010
                               0101
                                            005
073
          5Ÿ
               00111011
                               0101
                                            005
                               0011
074
          6Û
               ØØ111100
ØØ111101
                                            003
075
          61
                                            005
                               0101
                                                       BGT
276
          62
               00111110
                               0011
                                            003
               00111111
                               0101
077
          63
                                            005
                                                       ****
```

*******/( A(PIN #05) IS DPE CC ZERO (1)H ******/( B(PIN #06) IS DPE CC COUT (1)H *****/( C(PIN #07) IS DPE CC NEG (1)H ****/( D(PIN #04) IS DPE CC VBIT (1)H

***/( E(PIN #03) IS DPF IR 10 (1)H **/( F(PIN #02) IS DPF IR 09 (1)H */( G(PIN #01) IS DPF IR 08 (1)H /( H(PIN #15) IS DPF IR 15 (1)H 6<u>6</u> 6<u>7</u>

72

745 757

79

85

87

HGFEDCBA

01000110

Ø1010101 Ø1010111 Ø1010111 Ø1011000

01011010 01011011

01011101

OCTAL DECIMAL ADDRESS ADDRESS

16	=	Y 4	(P	ΙN	#	9)	ı	CO	N	F	MP	C	Ø	3	Ł			
		9 7 3	. (	PIN	. #	1 2	,	Ē	0	NF	M	PC	;	o 2				
				(PI														
				Ì(P														
	+	•		7 1	o C			7,			•			•	-			
	•				DA													
001	1				ØØ													
001	1				ØØ													
001	1				00	3												
001	1				00	3												
001	1				ØØ													
001	1				ØØ													
001	. 1				00	3												
001	1				00	3												
001	. 1				ØØ	3												
001	1				00	3												
001	1				ØØ	3												
001	1				ØØ	3												
001	1				ØØ	3												
001	.1				ØØ	3					BR	(	A	L !	AY	(5)		
001					00	3												
001	, 1				ØØ						<b>*</b> •	• •	•	++	++		6	
010	11				ØØ	5												
010	1				ØØ													
010					ØØ													
010					ØØ													
001					00													
001					00													
001					ØØ													
001					ØØ													
001					00													
001					00													
001					00													
001					00													
640	1 1				a a	₽												

BLT

****

```
140
             96
                     01100000
                                          0101
                                                            005
141
             97
                     01100001
                                          0011
                                                            003
142
             98
                     01100010
                                          0101
                                                            005
143
             ٩Ÿ
                     01100011
                                          0011
                                                            003
144
            100
                     01100100
                                          0101
                                                            ØØ5
145
            101
                     01100101
                                          0011
                                                            003
146
            102
                     01100110
                                          0101
                                                            005
                     01100111
147
            103
                                          0011
                                                            003
150
            104
                     01101000
                                          0101
                                                            005
151
            107
                     01101001
                                          0011
                                                            003
152
            100
                     01101010
                                          0101
                                                            005
            107
153
                     01101011
                                          0011
                                                            003
154
            108
                     01101100
                                          0101
                                                            005
155
                                                                           BEQ
            109
                     01101101
                                          0011
                                                            003
                     01101110
156
            110
                                          0101
                                                            005
                                          0011
                                                                            *****
                     01101111
157
            111
                                                            003
                                                            005
16Ø
            112
                     01110000
                                          0101
            113
                                                            003
161
                     01110001
                                          0011
                     01110010
162
                                          0101
                                                            005
                    Ø1110011
Ø1110100
Ø1110101
                                                            003
163
                                          0011
                                          0011
                                                            003
165
            117
                                          0011
                                                            003
            115
                                                            ØØ3
166
                     01110110
                                          0011
167
170
            119
                    01110111
01111000
                                          0011
                                                            003
                                          0011
171
                                          0011
                                                            003
            121
                     01111001
            122
172
                     01111010
                                          0011
                                                            003
173
174
            123
124
125
126
                    01111011
01111100
01111101
01111110
                                                            003
                                          0011
                                          0101
                                                            005
175
176
                                          0011
0101
                                                            003
                                                                            BLE
                                                            005
177
            127
                     01111111
                                                            003
                                          0011
                     ********/ A(PIN #05) IS DPE CC ZERO (1)H
                     *******/ A(PIN #05) IS DPE CC ZERO (1)H

*****/( B(PIN #06) IS DPE CC COUT (1)H

****/( C(PIN #07) IS DPE CC NEG (1)H

****/( D(PIN #04) IS DPE CC VBIT (1)H

***/( E(PIN #03) IS DPF IR 10 (1)H

***/( F(PIN #02) IS DPF IR 09 (1)H

*//( G(PIN #01) IS DPF IR 08 (1)H

// H(PIN #15) IS DPF IR 15 (1)H
```

```
/( =Y4 (PIN # 9) CONF MPC 03 L
+/( =Y3 (PIN #10) CONF MPC 02 L
+*/( #Y2 (PIN #11) CONF MPC 01
                                       +++/( #Y1 (PIN #12) CONF MPC 04 L
OCTAL DECIMAL ADDRESS ADDRESS
                                       ....
                                                      OCTAL
DATA
                      HGFEDCBA
                                       ++++
    200
              128
                      100000000
                                       0011
                                                      003
                      100000001
                                       0011
                                                      003
              130
                      100000010
                                       0011
    202
                                                      003
              131
                      10000011
                                       0011
    203
                                                      003
     204
              132
                      10000100
                                       0101
                                                      005
     205
              133
                      10000101
                                       0101
                                                      005
              134
                      10000110
                                       0101
     206
                                                      005
     207
              13>
                      10000111
                                       0101
                                                      005
     210
              136
                      10001000
                                       0011
                                                      003
     211
              137
                      10001001
                                       0011
                                                      003
     212
              135
                      10001010
                                       0011
                                                      003
     213
              139
                      10001011
                                       0011
                                                      003
     214
              140
                      10001100
                                       0101
                                                      005
     215
              141
                      10001101
                                       0101
                                                      005
                                                                  BPL
                                       0101
              142
     216
                      10001110
                                                      005
              143
    217
22Ø
                                       0101
                                                                   ****
                      10001111
                                                      005
                      10010000
                                       0011
                                                      003
                      10010001
     221
                                       0011
                                                      003
              147
                                       0011
                      10010010
     222
                                                      003
                      10010011
     223
                                                      003
     224
                      10010100
                                       0011
                                                      003
                     10010101
10010111
10010111
10011000
                                       0011
0011
     225
                                                      003
     226
                                                      003
              151
     227
                                       0011
                                                      003
              152
                                       0101
                                                      005
     230
                      10011001
              153
                                       0101
     231
                                                      005
     232
              154
                                       0101
                                                      005
     233
              155
                      10011011
                                       0101
                                                      005
     234
              156
                      10011100
                                       0101
                                                      ØØ5
     235
              157
                      10011101
                                       0101
                                                      005
                                                                  RAC
              158
                      10011110
                                       0101
                                                      ØØ5
     237
              159
                      10011111
                                       0101
                                                      005
                                                                   ***
```

```
- 60
              10100000
                            ØØ11
                                         ØØ3
240
241
        : 61
              10100001
                            0101
                                         005
              10100010
                            0101
                                         005
242
        : 62
243
                                         005
                            0101
        163
              10100011
244
                            0011
        164
              10100100
                                         003
        165
              10100101
                            0101
0101
245
                                         005
              10100110
                                         005
246
        160
        167
247
              10100111
                             0101
                                         005
        168
                             0011
                                         003
250
              10101000
        169
              10101001
                            0101
                                         005
251
252
        170
                             0101
                                         005
              10101010
                            0101
253
        171
              10101011
                                         005
                             0011
254
        172
              10101100
                                         003
255
                             0101
        173
              10101101
                                         005
                                                   RHI
256
        174
              10101110
                             0101
                                         005
257
        175
              10101111
                             0101
                                         005
                                                    ****
        176
                             0011
                                         003
26Ø
              10110000
261
        177
              10110001
                             0011
                                         003
        175
                                         005
262
              10110010
                             0101
263
        179
              10110011
                             0101
                                         ØØ5
264
        130
              10110100
                             0011
                                         003
              10110101
265
        131
                            0011
                                         003
265
        1 32
              10110110
                             0101
                                         005
267
        133
              10110111
                            0101
                                         005
270
        134
              10111000
                            0011
                                         003
271
        135
              10111001
                            0011
                                         003
272
        130
              10111010
                             0101
                                         005
273
        137
              10111011
                            0101
                                         005
274
        188
              10111100
                             0011
                                         003
275
        189
                                                   BÇÇ
              10111101
                            0011
                                         003
        100
276
                            0101
              10111110
                                         ØØ5
277
        191
                                                   ***
              10111111
                            0101
                                         005
              ******
```

/( H(PIN #15) IS DPF IR 15 (1)H

)

212

32Ø 321

336

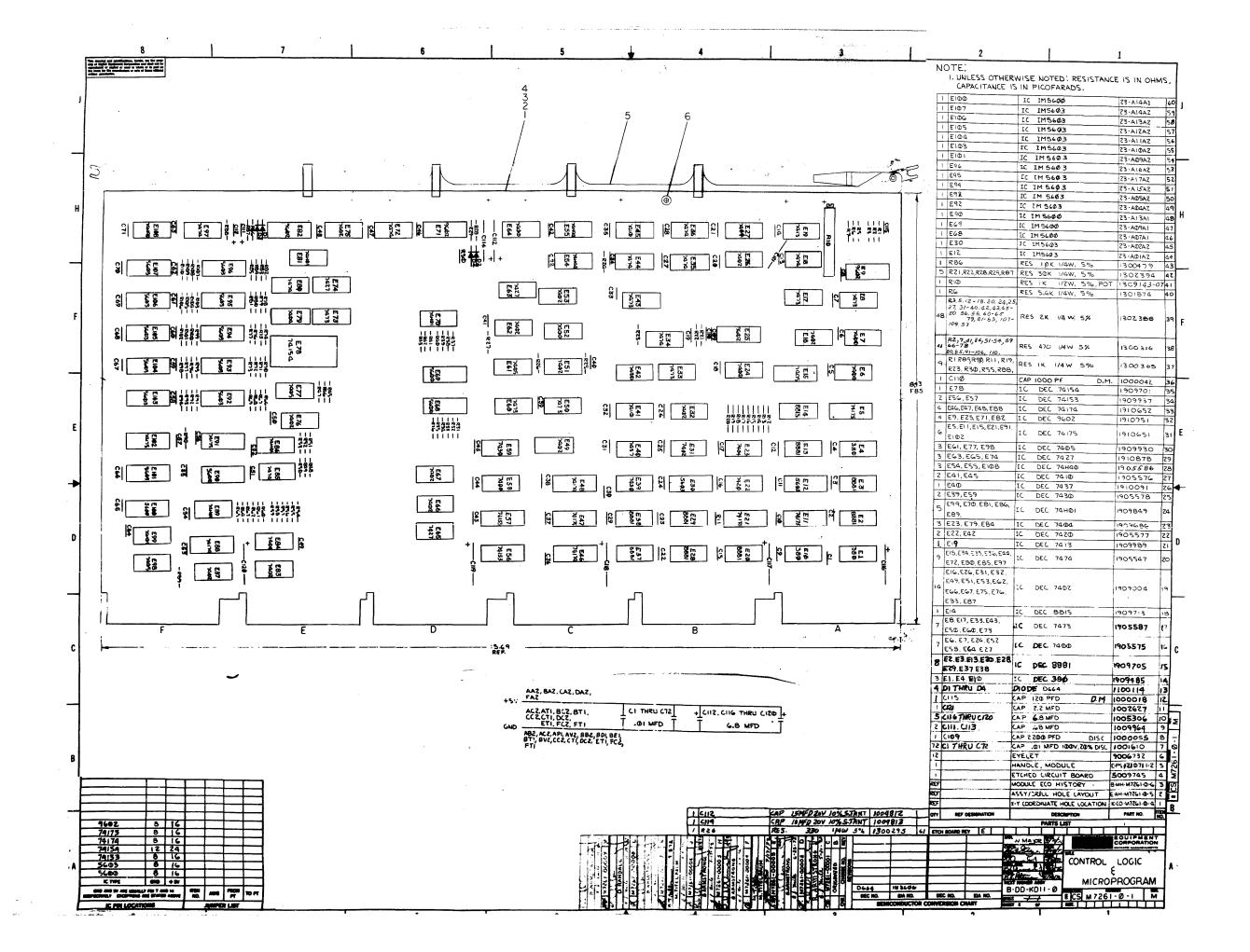
HGFEDCBA 11000000 11000001

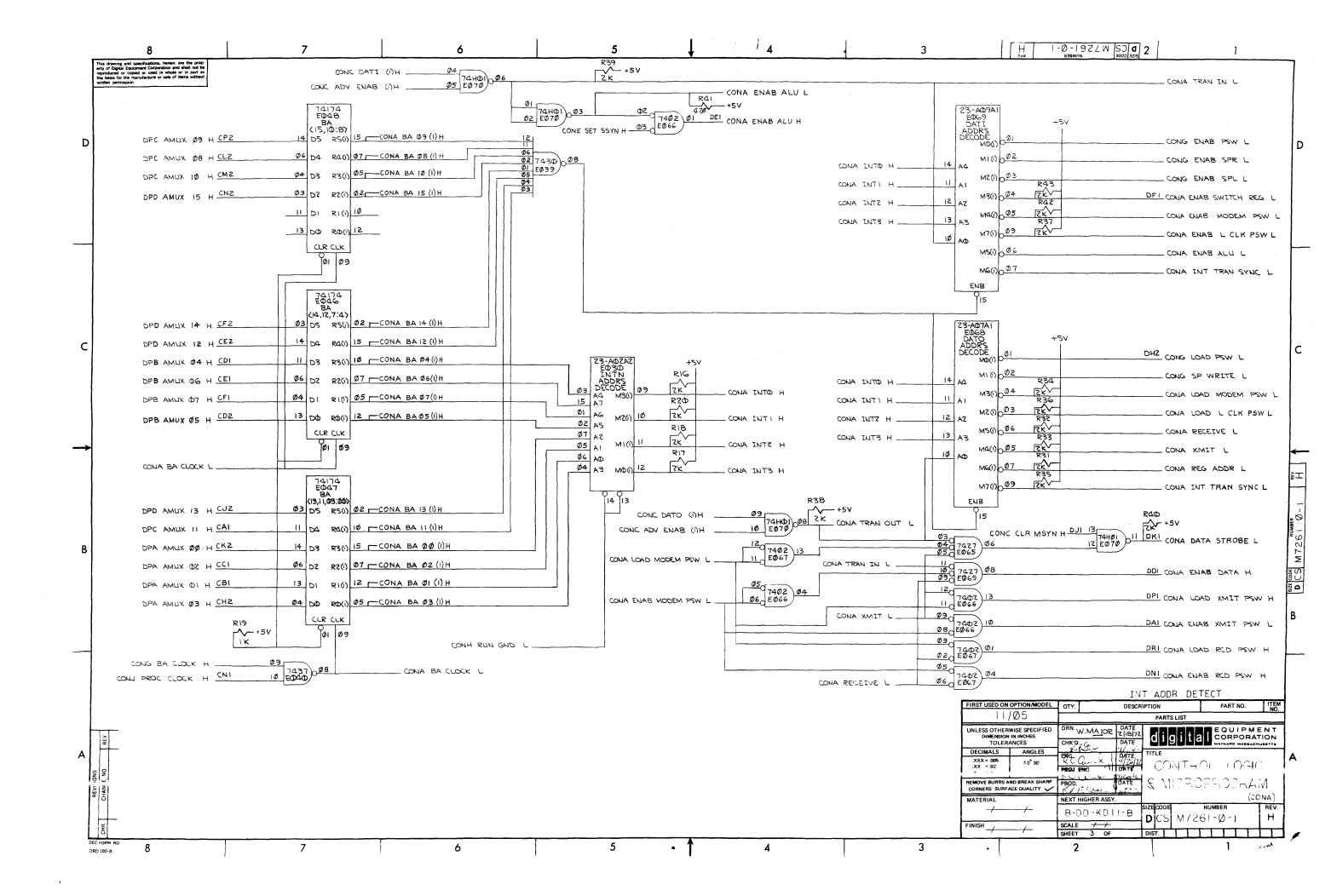
11011010 11011011 11011100

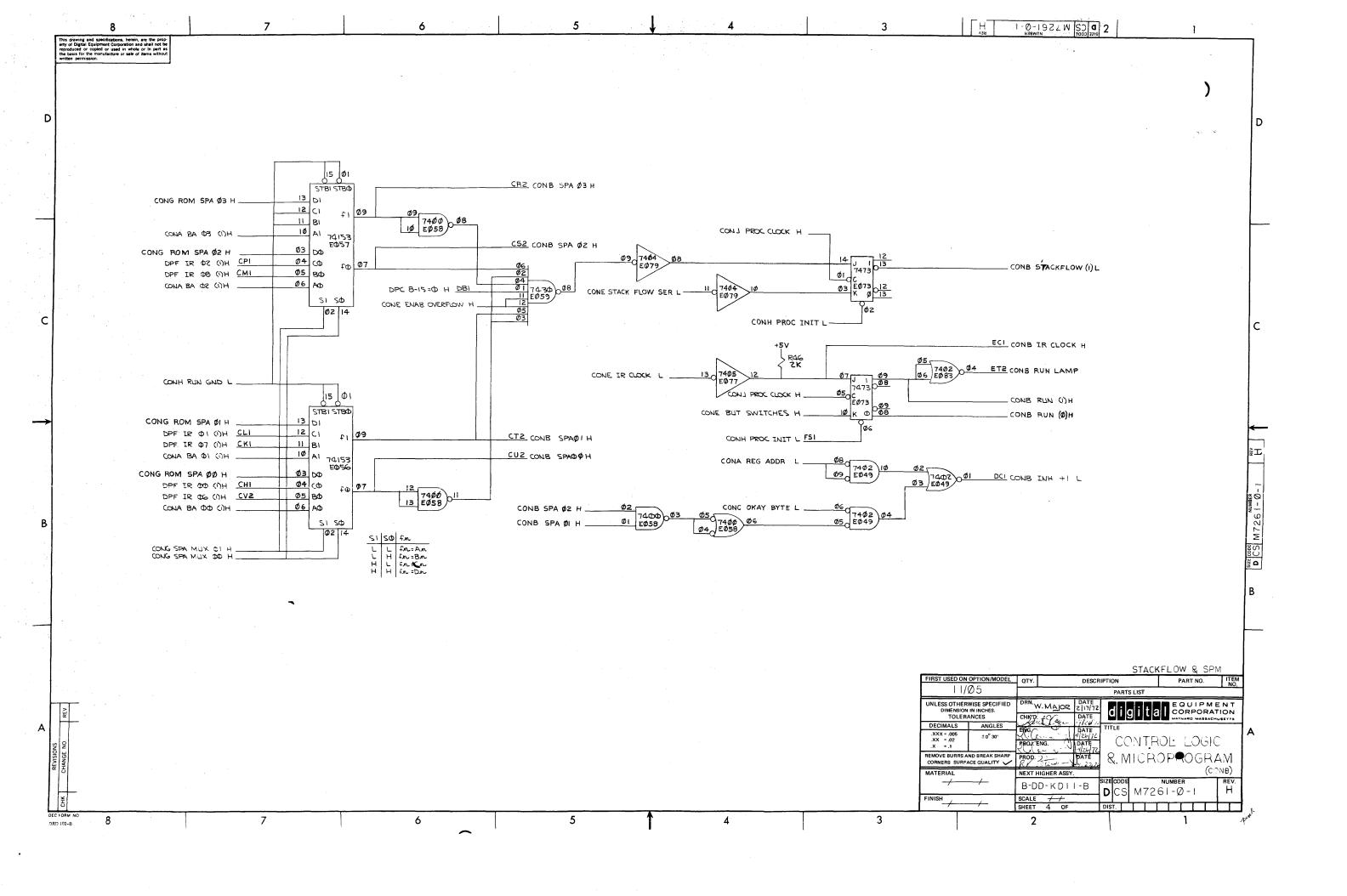
		· • · · ·	4 - 1 4 140	,		011221	,
/( #Y4 (PIN	# 9) CONF	MPC Ø	3 L				
	#10) CONF						
++/( #Y2 (PI			Ø1 L				
***/( #Y1 (P	IN #12) CO						
	OCTAL					_	
	DATA					_	
	005						
	005						
	005						
	005						
0011	003						
	003						
0011	ØØ3						
0011	ØØ3						
0101	ØØ5						
0101	ØØ5						
Ø101	ØØ5						
	ØØ5						
	ØØ3						
		BWI					
	ØØ3						
	ØØ3	***					
	ØØ5						
	005						
	005						
	005						
	ØØ5						
	005						
	ØØ5						
	005						
	ØØ3						
	ØØ3						
	ØØ3						
	ØØ3						
	ØØ3	BVS					
	ØØ3	D 1 2					
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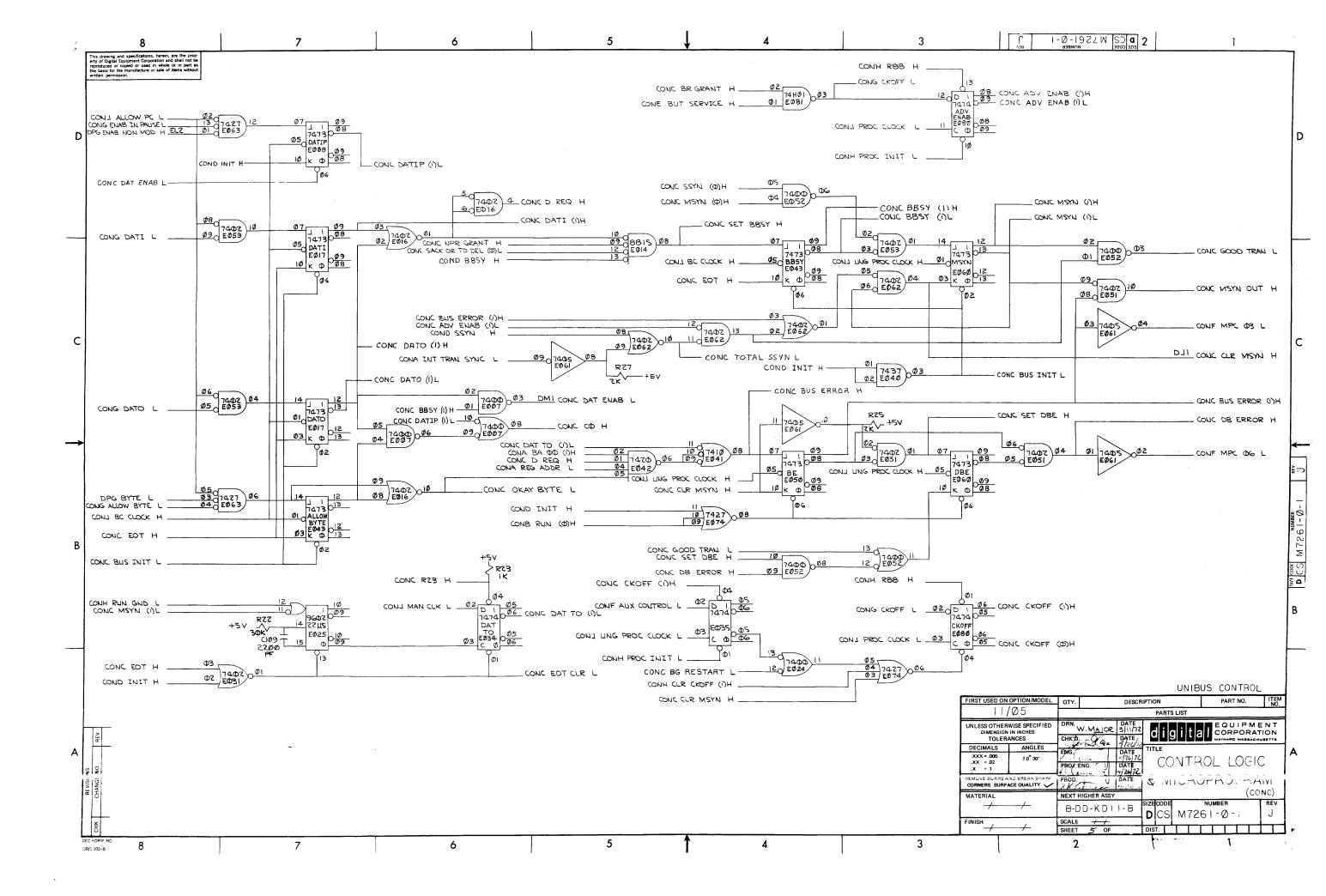
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342	226	11100010	0011	003	
343	227	11100011	0011	003	
344	228	11100100	0101	ØØ5	
345	229	11100101	0011	003	
346	230	11100110	0011	003	
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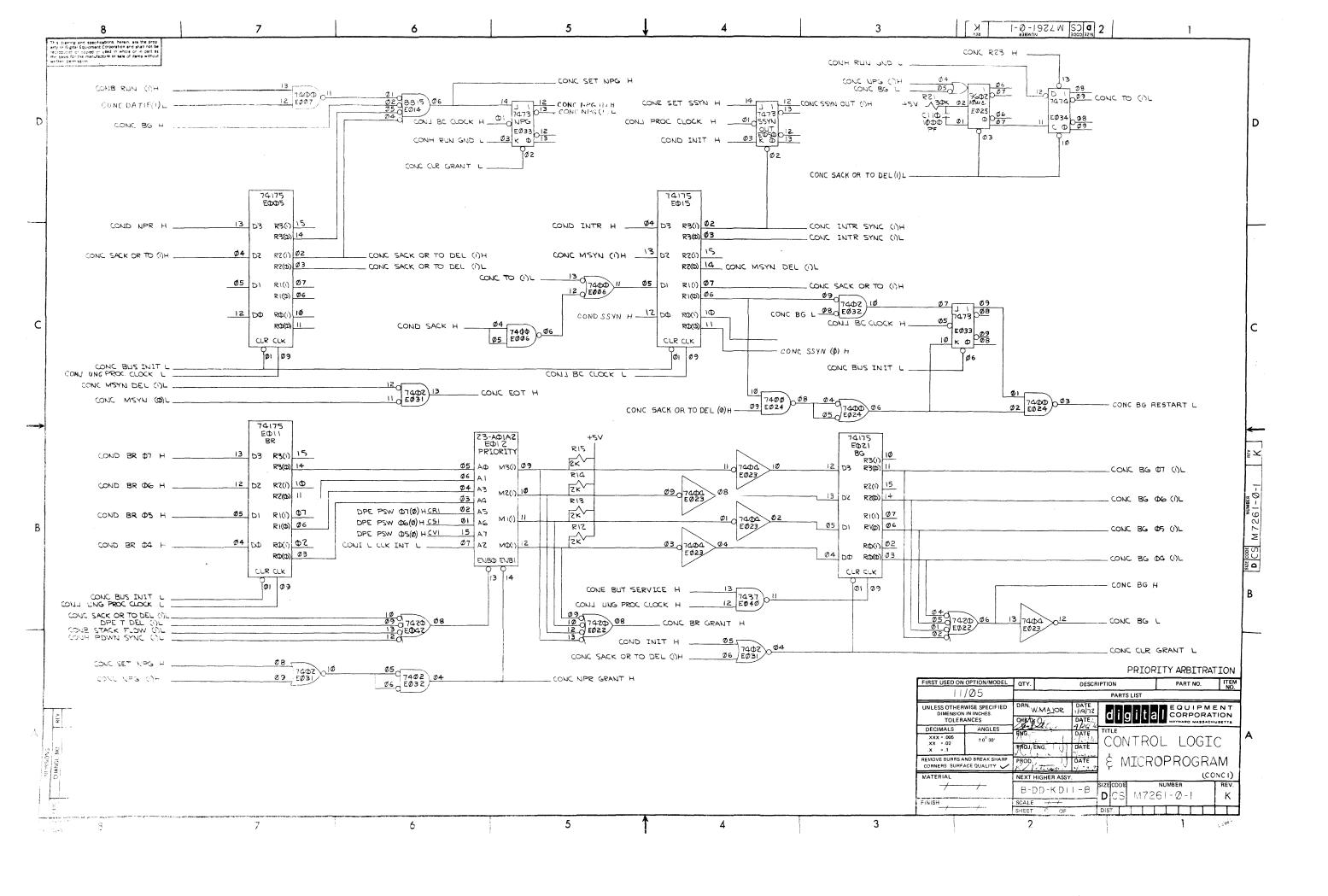
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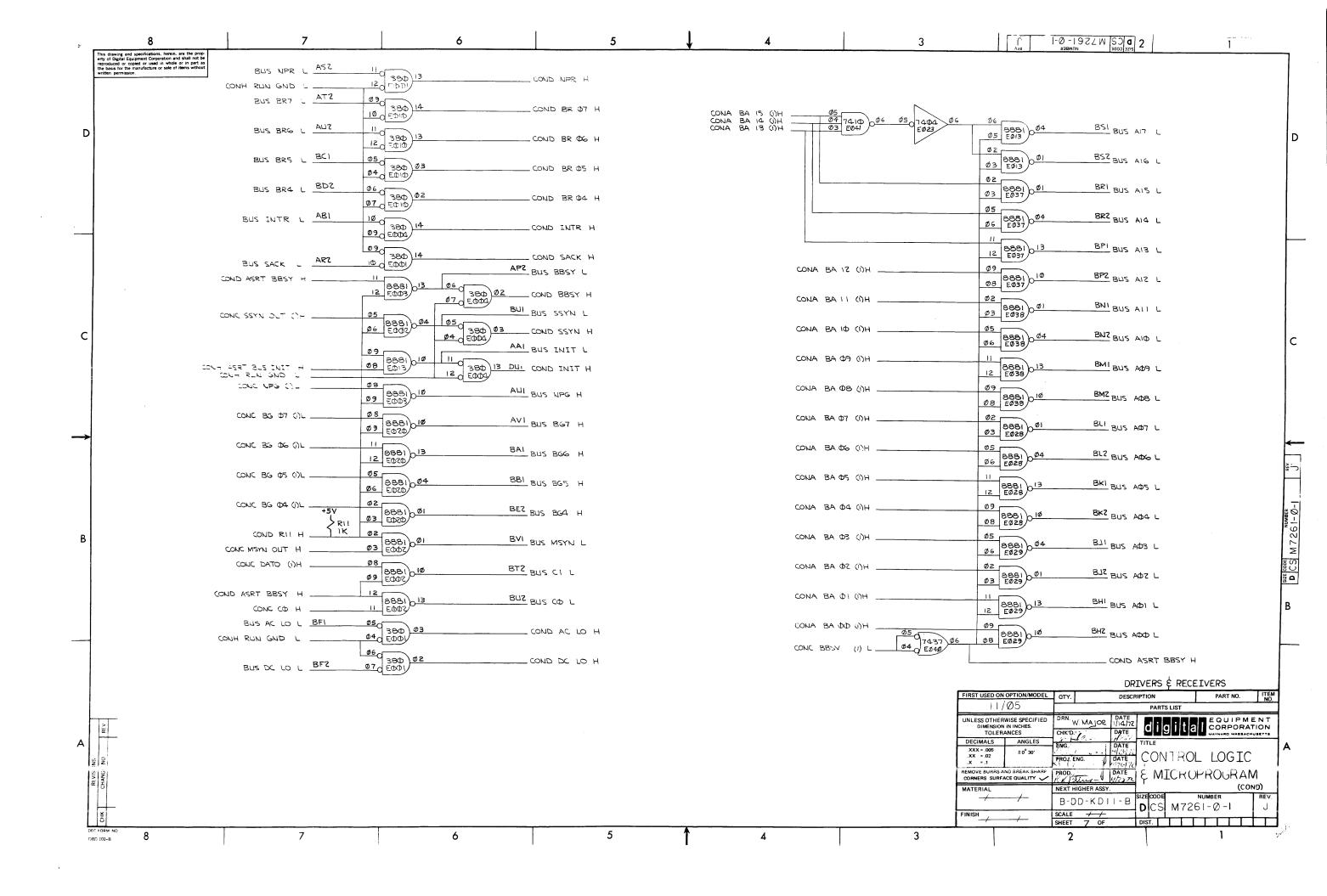


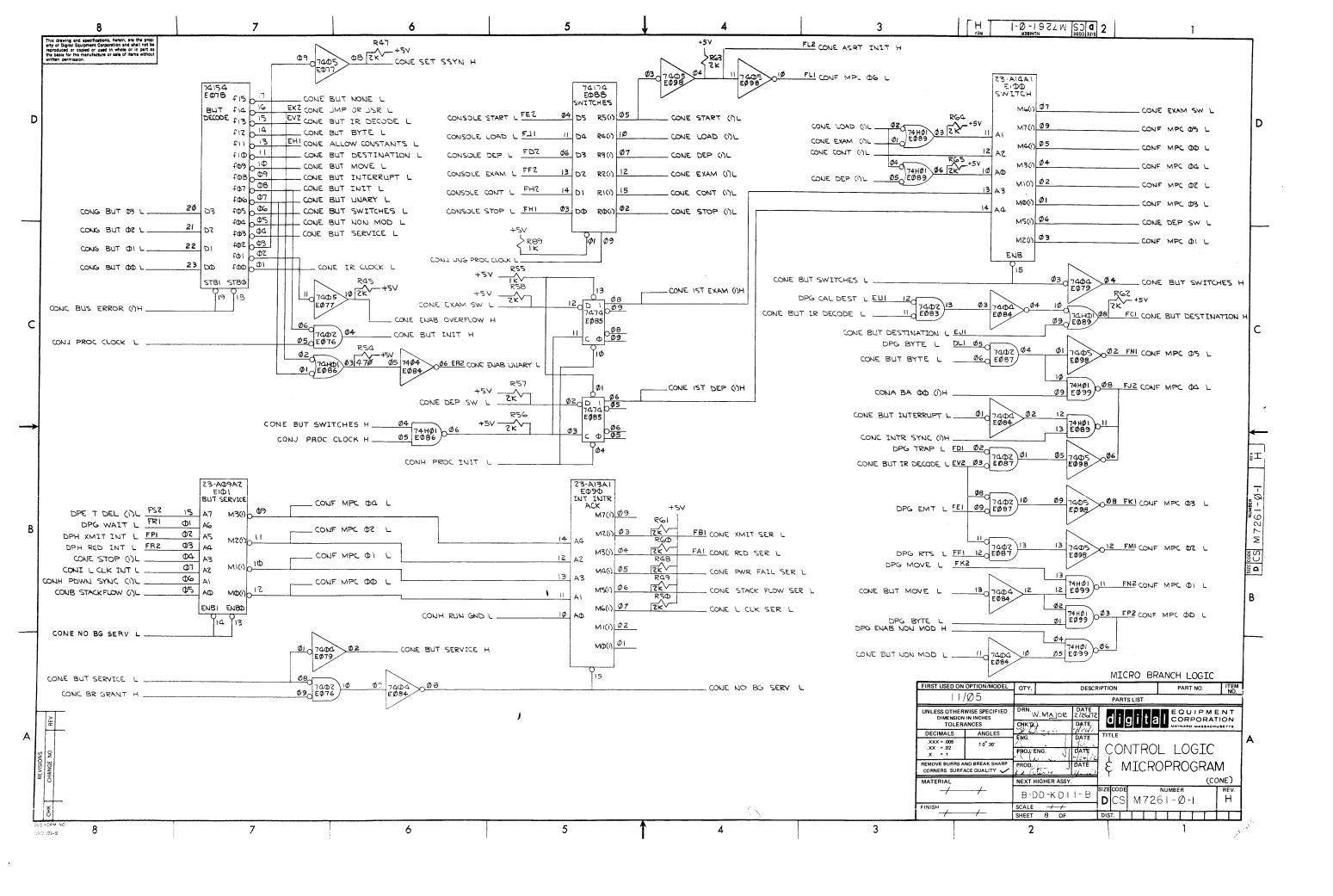


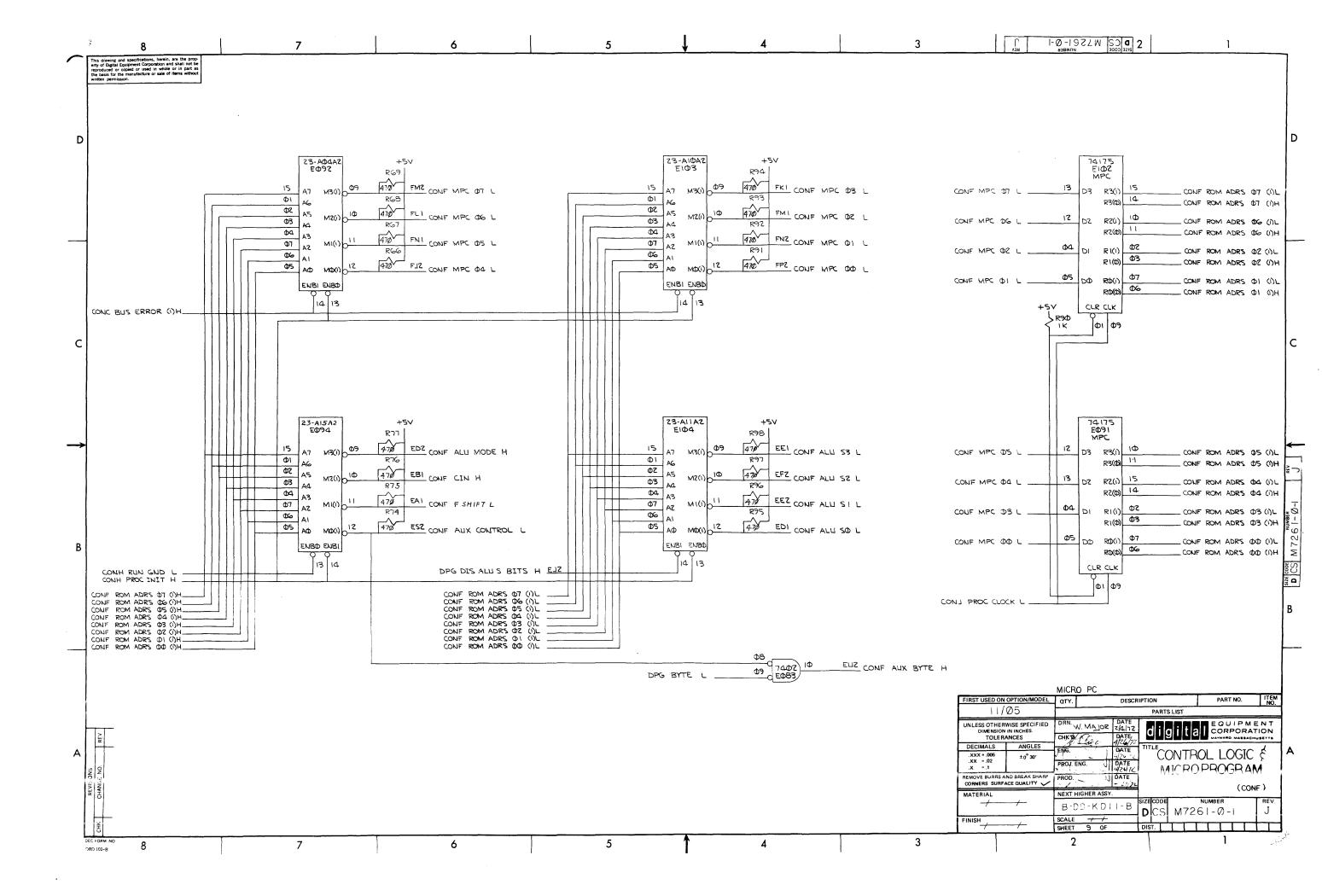


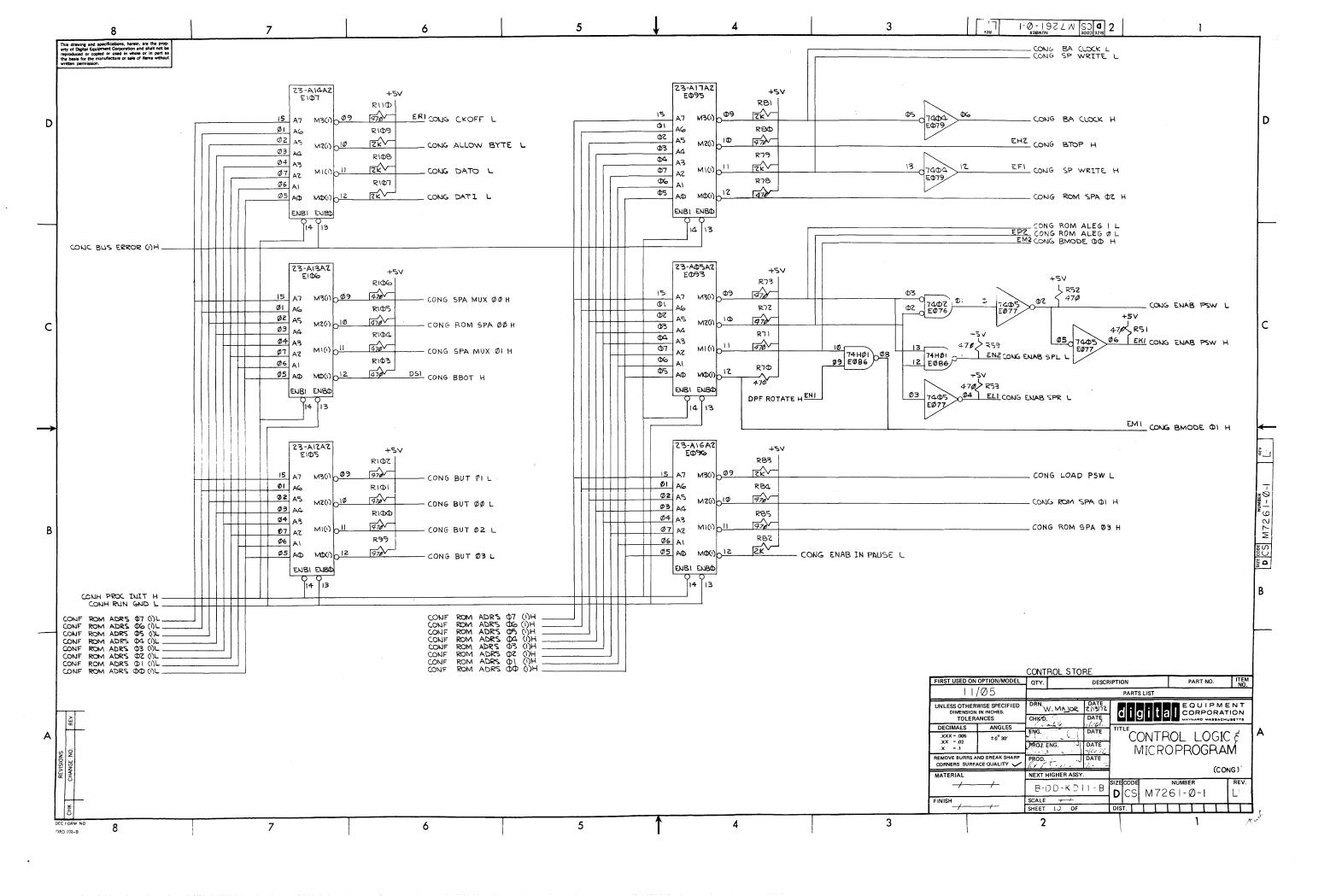


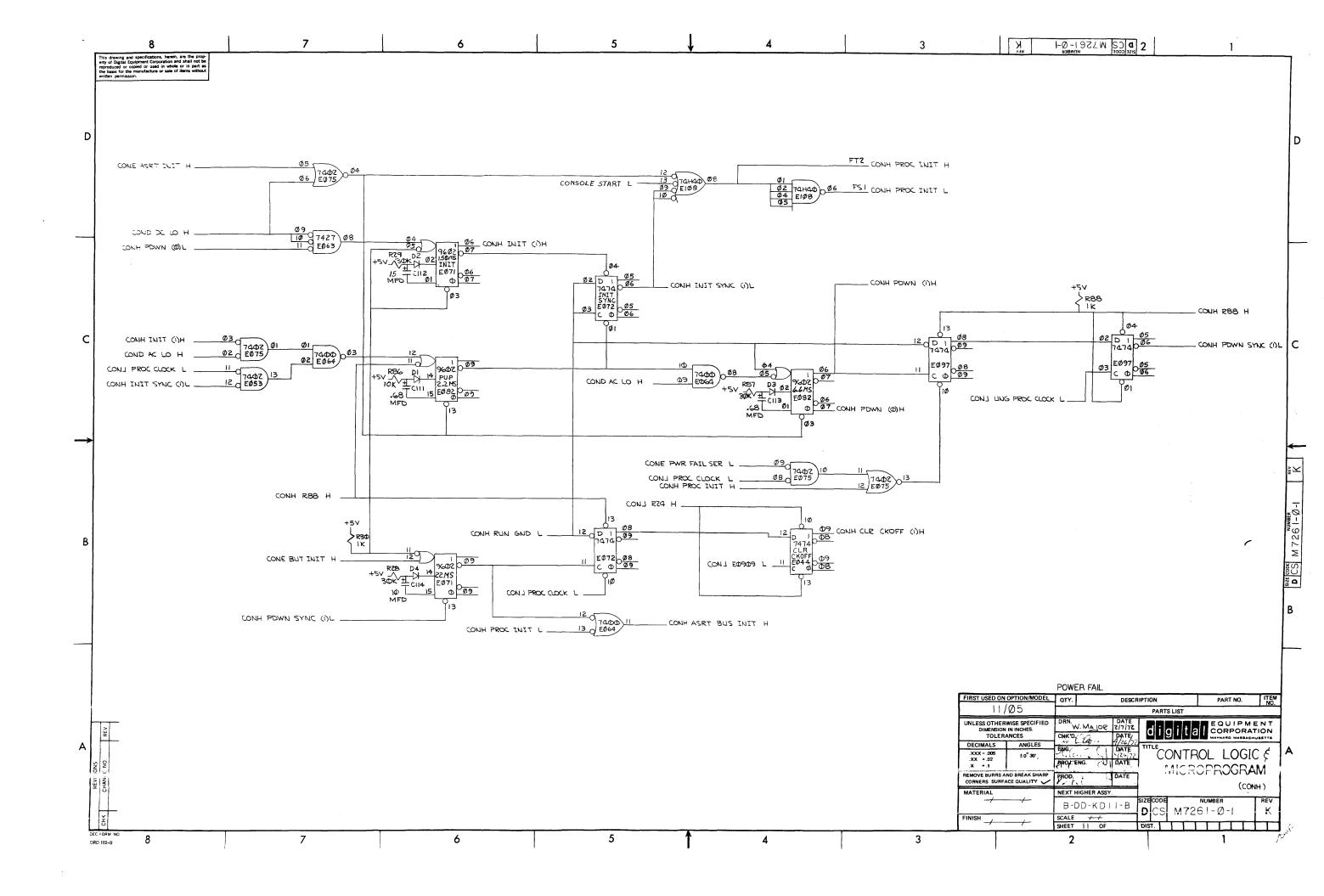


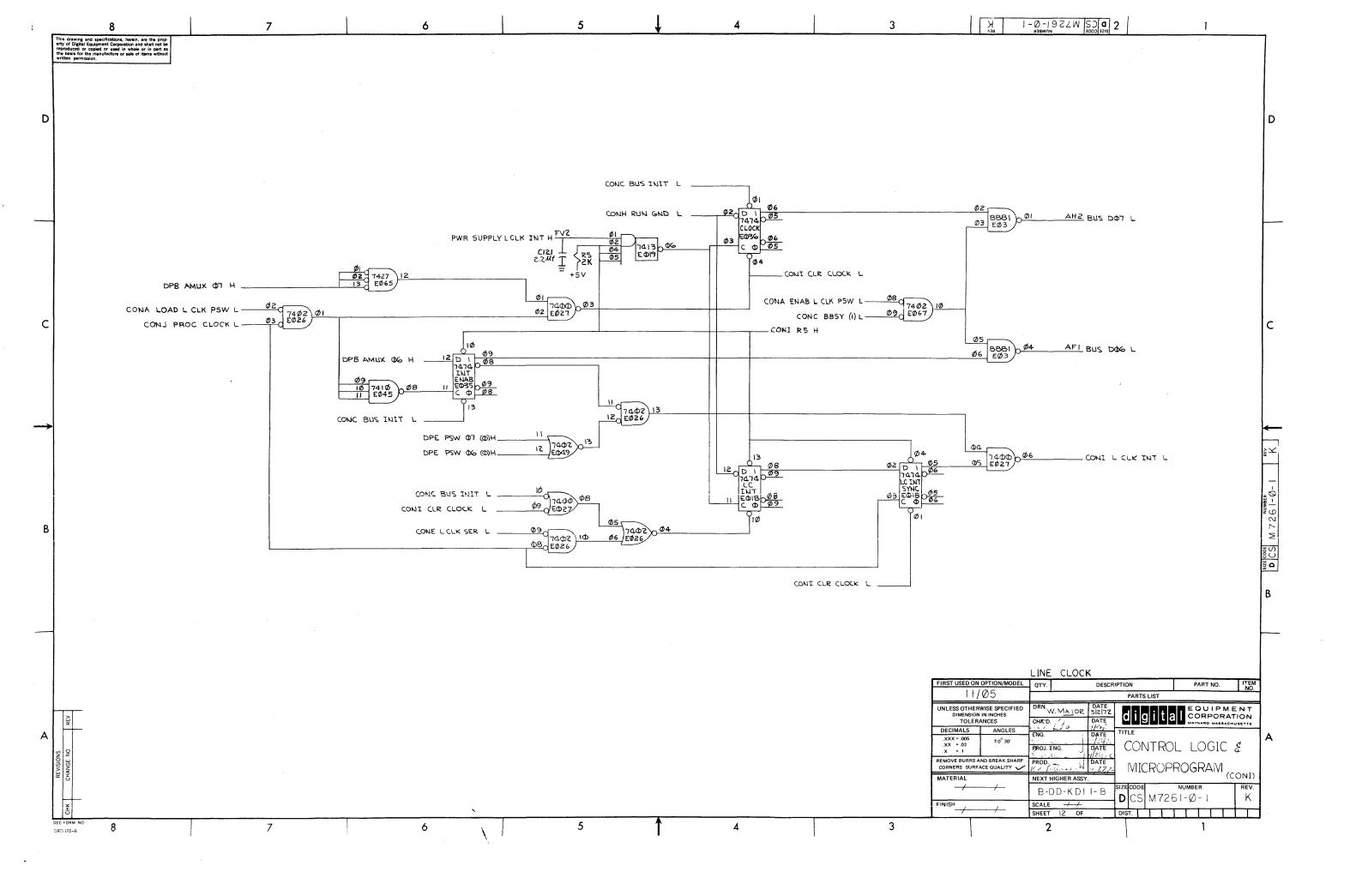


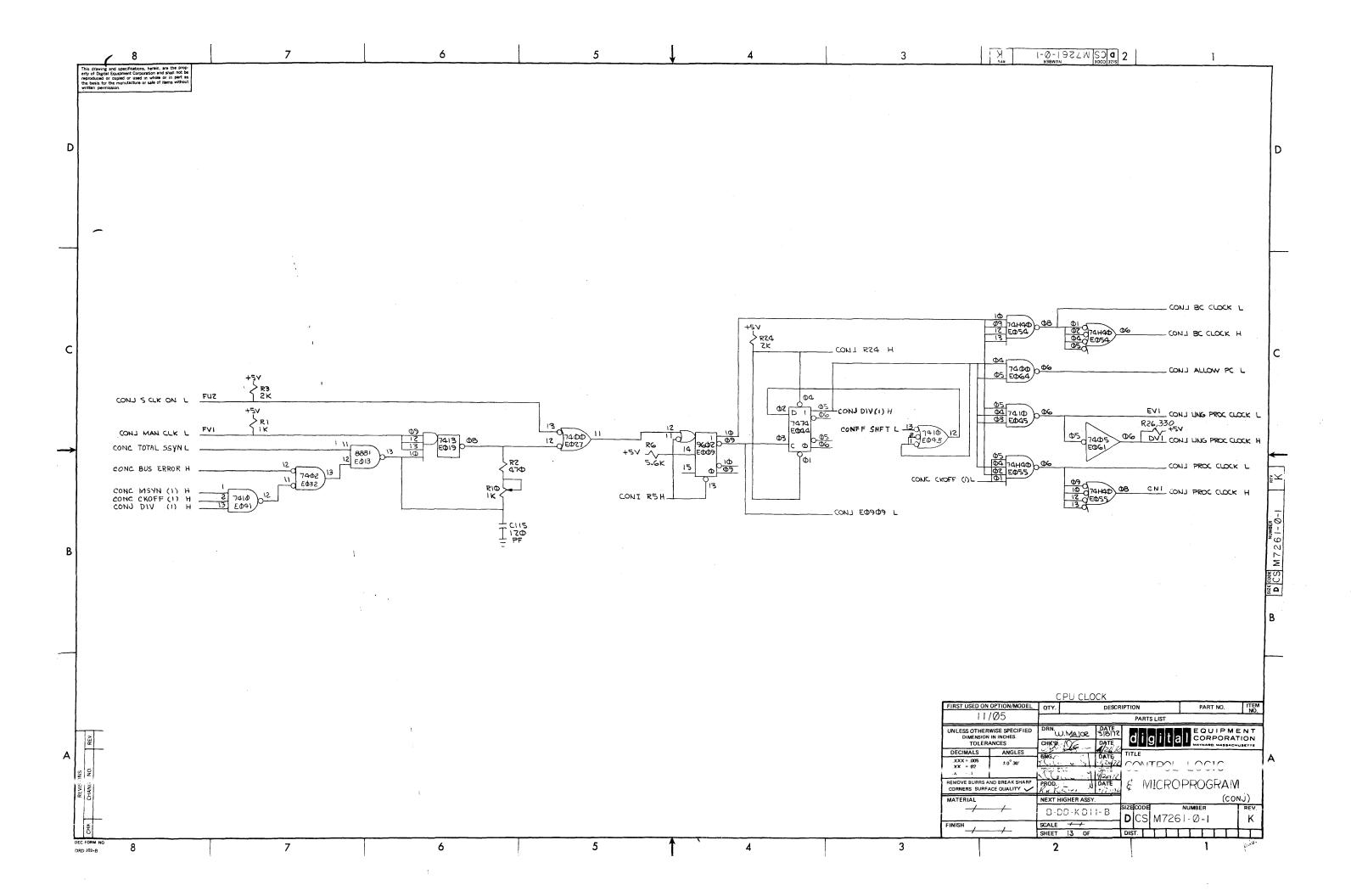


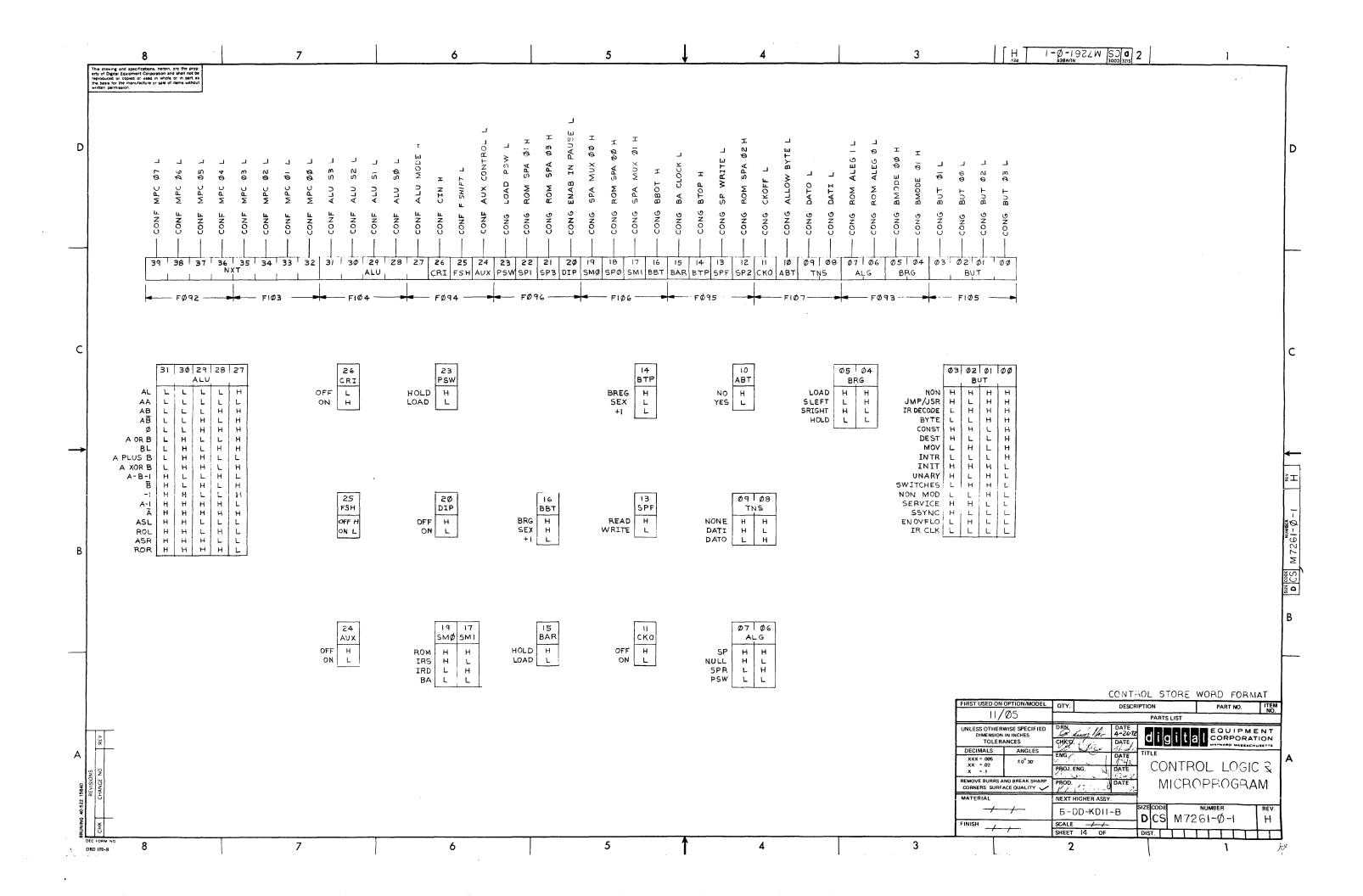












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/( EY8 (PIN #9) CONA INT TRAN SYNC L
                                          */( EY7 (PIN #7) CONA REG ADDR L
                                         ++/( =Y6 (PIN #6) CONA RECEIVE L

+++/( =Y5 (PIN #5) CONA TRANSMIT L

++++/( =Y4 (PIN #4) CONA LOAD MODEM PSW L

+++++/( =Y3 (PIN #3) CONA LOAD L CLK PSW L

+++++/( =Y2 (PIN #2) CONG SP WRITE L
                                         +++++++/( #Y1 (PIN #1) CONG LOAD PSW L
+++++++

OCTAL
+++++++

OATA
11111111 377
   OCTAL DECIMAL
ADDRESS ADDRESS
                            EDCBA
                             00000
    000
                                                                   377
                            00001
                                          11111111
                             00010
                                          11111111
                                                                   377
     002
                                                                   377
     003
                             00011
                                          11111111
                                                                                  PSW ,TRAN OUT BA=177776
PSW ,TRAN OUT BAR
LCLK ,TRANOUT BAR
LCLK ,TRANOUT BAR
GR≪RØ;R17> ,TRANOUT BA∋1777XX
GR≪RØ;R17> ,TRANOUT,RAR
ODD BYTE (LCLK/TK/TP)
                                          01111110
                                                                   176
    004
                             00100
                                                                   377
     005
                             00101
                                          11111111
                             00110
                                          01111011
                                                                   173
    007
                             00111
                                          11111111
                                                                   377
                                          00111101
                             01000
                                                                   Ø75
     010
                   9
                             01001
                                          10111111
                                                                   277
     011
                             01010
                                         0111111
                                                                   177
                                          11111111
     013
                             Ø1911
                                                                   377
     014
                 12
                             01100
                                         11111111
                                                                   377
     015
                 13
                             01101
                                          11111111
                                                                   377
                                                                                   SWR ,TRANOUT BA#177570
SWR ,TRANOUT BAR
     016
                             01110
                                         Ø111111
                                                                   1,77
                                                                   377
     017
                 15
                             Ø1111
                                          11111111
                                                                                   TKS TRANOUT BAR177560
TKS TRANOUT BAR
                                                                   127
     020
                 16
                             10000
                                         01010111
                                                                   337
     021
                 17
                             10001
                                          11011111
                                                                                   TKS ,TRANOUT BAR
TPS ,TRANOUT BA=177564
TPS ,TRANOUT BAF177562
TKB ,TRANOUT BAF177562
TKB ,TRANOUT BAR
TPB ,TRANOUT BAF177566
TPB ,TRANOUT BAR
                             10010
                                                                   147
     Ø22
                 18
                                         01100111
                                                                   357
                             10011
     023
                 19
                                          11101111
                                                                   137
     024
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                                          01011111
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                                          11011111
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357
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     030
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                                          11111111
     Ø36
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     Ø37
                             11111
                                                                   377
                             ....
                             ++++/( A(PIN #10) IS CONA TRAN OUT L
                             +++/( B(PIN #11) IS Y3 OF F025

++/( C(PIN #12) IS Y2 OF F025

+/( D(PIN #13) IS Y1 OF F025
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/( E(PIN #14) IS Y4 OF F025

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A09A1
             27.JUL-72
                               23 #A #9A1
                                                                     ROM LISTING M7261-8 REVIA
                                  /( =Y8 (PIN #9) CONA ENAB L CLK PSW L
                                  +/( EY7 (PIN #7) CONA INT TRAN SYNC L
++/( EY6 (PIN #6) CONA ENAB ALU L
                                   +++/( =Y5 (PIN #5) CONA ENAB MODEM PSW L
                                  ++++/( =Y4 (PIN #4) CONA ENAB SWITCH REG L
++++*/( =Y3 (PIN #3) CONG ENAB SPL L
++++*+/( =Y2 (PIN #2) CONG ENAB SPR L
                                  ++++++/( =YI (PIN #1) CONG ENAB PSW L
  OCTAL DECIMAL
                                  *****
                                                       OCTAL
ADDRESS ADDRESS
                       EDCBA
                                  *******
                                                        DATA
   000
               0
                       00000
                                  11111111
                                                        377
                                                        377
   001
                       00001
                                  11111111
                       00010
   002
                                  11111111
                                                        377
                       00011
   003
                                                        377
                                  11111111
                                                                    PSW TRANIN BAE177776
PSW TRANIN BAE177776
LCLK TRANIN BAE177546
LCLK TRANIN BAR
GEN REG TRANIN BAE1777XX
GEN REG TRANIN BAR
ODD BYTE ADDRESS (LCLK/TK/TP)
   004
                       00100
                                  1001[110
                                                        236
                                                        377
   005
                       00101
                                  11111111
   006
                       00110
                                                       077
                                  00111111
   ØØ7
                                                        377
                       00111
                                  010
                       01000
                                                        231
                                                        377
   011
                       01001
                                  11111111
                                  10111111
                                                        277
   012
              10
                       01010
   013
                                                        377
                        01011
                                  11111111
              11
   014
                        01100
                                  11111111
                                                        377
   015
              13
                        01101
                                  11111111
                                                        377
                                                                     SWR TRANIN BAR177578
   016
                        01110
                                                        227
                                  10010111
                       01111
   617
              15
                                  11111111
                                                        377
                                                                     TKS TRANIN BAR177560
TKS TRANIN BAR
   020
              16
                       10000
                                  10001111
                                                       217
   021
              17
                        10001
                                  11111111
                                                                     TPS TRANIN BA=177564
TPS TRANIN BAR
   Ø22
                       10010
                                  10001111
   023
              19
                       10011
                                  11111111
                                                        377
                                                                     TKB TRANIN BA=177562
TKB TRANIN BAR
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              22
                                  1001I111
                                                        237
    Ø27
              23
                                                        377
                                                                     TPB TRANIN RAR
                                  11111111
   230
                                  11111111
                        11000
                                                        377
              24
   Ø31
              25
                        11001
                                                        377
   Ø32
                                  11111111
              26
                        11010
                                                        377
   Ø33
              27
                        11011
                                  11111111
                                                        377
   034
              28
                        11100
                                  11111111
                                                        377
   035
              29
                                  11111111
                        11101
                                                        377
   236
              30
                        11110
                                                        377
    037
              31
                        ****
                        ++++/( A(PIN #10) IS CONA TRAN IN L
                       ***/( B(PIN #11) IS Y3 OF F025
**/( C(PIN #12) IS Y2 OF F025
*/( D(PIN #13) IS Y1 OF F025
```

/( E(PIN #14) 15 Y4 OF P025

```
/( =Y0 (PIN #Y)

*/( =Y7 (PIN #7) CONE LINE CLOCK SER L

**/( =Y6 (PIN #6) CONE STACK FLOW L

***/( =Y6 (PIN #6) CONE STACK FLOW L

***/( =Y6 (PIN #6) CONE RCD SER L

****/( =Y4 (PIN #4) CONE RCD SER L

*****/( =Y3 (PIN #3) CONE XMIT SER L

******/* =Y4 (PIN #2)
                                        *******/( =Y1 (PIN #1)
  OCTAL DECIMAL
                                       *******
                                                               OCTAL
ADDRESS ADDRESS
                           EDCBA
                                       ******
                                                                DATA
                                                                377
                           00000
                                       11111111
                           00001
                                                                377
                                       11111111
    002
                           00010
                                                                377
    003
                           00011
                                       11111111
                                                                377
    004
                           00100
                                       11111111
                                                                377
    005
                  5
                           00101
                                       11111111
                                                                377
    006
                                       11111111
                                                                377
                           00110
    007
                           00111
                                       11111111
                                                                377
                                                                377
    010
                           01000
                                       11111111
    01.1
                           01001
                                       11111111
                                                                377
                                                                367
    Ø1.2
                           01010
                                       11110111
                                                                               UART RCD INT MPC=64
                                                               377
    Ø13
                           01011
                                       11111111
    014
                 .,2
                           01100
                                       1111111
                                                                377
                                                               377
    Ø1,5
                 .. 3
                           01101
                                       11111111
                                                               373
377
                . 4
. 5
                                                                               UART XMIT INT MPC#60
    016
                           01110
                                       11111011
    Ø1.7
                           01111
                                       11111111
                                                                377
    020
                `...6
                           10000
                                       11111111
                                                                377
                <u>.</u>7
    021
                                       11111111
                           10001
                                                                               ERTHIA STACK FLOW MPCH46
                           10010
                                                                337
    Ø22
                                       11011111
                2.8
                                       11111111
                                                                377
    023
                 ્ 9
                           10011
                                       11101111
                                                                357
                                                                               PWR FAIL MPC=43
                 20
    024
                           10100
    025
                                                                377
                           10101
                                       11111111
                 21
                           10110
                                                                277
                                                                               LINE CLK INT MPC=42
                                       10111111
    026
                                       11111111
                                                                377
    027
                23
                                                                377
    030
                           11000
                                       11111111
                                                                377
    031
                           11001
                                       11111111
    Ø32
                           11010
                                       11111111
                                                                377
    033
                           11011
                                                                377
                                       11111111
    034
                           11100
                                       11111111
                                                                377
    Ø35
                29
                           11101
                                       11111111
                                                                377
    Ø36
                50
                           11110
                                       11111111
                                                                377
    037
                           11111
                                                                377
                           ****/( A(PIN #10) IS CONH RUN GND L

***/( B(PIN #11) IS CONF MPC 00 L

**/( C(PIN #12) IS CONF MPC 02 L

*/( D(PIN #13) IS CONF MPC 01 L

/( E(PIN #14) IS CONF MPC 04 L
```

ROM LISTING M7261-8 REV, A

A13AL

27-JUL-72

"3-A13A1

/( =Y8 (PIN #9)

```
27-JUL-72
                                                                            ROM LISTING M7261-8 REV'A
A14A1
                                  23 A14A1
                                      /( =48 (PIN #9) CONF MPC Ø5 L
                                     */( #Y7 (PIN #7) CONE EXAM SW L **/( #Y6 (PIN #6) CONE DEP SW L
                                     ***/* = 75 (PIN #5) CONF MPC ØØ L
****/* = 74 (PIN #4) CONF MPC Ø4 L
*****/* = 73 (PIN #3) CONF MPC Ø1 L
*****/* = 72 (PIN #2) CONF MPC Ø2 L
*****/* = 71 (PIN #1) CONF MPC Ø3 L
  OCTAL DECIMAL
                                      *****
                                                             OCTAL
ADDRESS ADDRESS
                          EDCBA
                                                             DATA
                                      *****
                                                                            CONTINUE
                                                             370
                          00000
                                     11111000
    600
                                                                            TWO SW SCONT DEP
TWO SW EXAM CONT
TWO SW LOAD CONT
    001
                          00001
                                                             373
                                      11111011
                          00010
                                      11111011
                                                             373
    003
                                                             373
                          00011
                                      11111011
    004
                          00100
                                     11111011
                                                             373
                                                                            NO SW
    005
                          00101
                                     11001010
                                                             312
                                                                            DEP SW1 GOTO 313
    006
                                                                            EXAM GOTO TO 317
    007
                                                                            LOAD GOTO TO 311
                          00111
                                     11101110
                                                             356
                                                                            CONTECLE EXAM
    010
                          01000
                                     11111000
                                                             370
    011
                 9
                          01001
                                     11111011
                                                             373
                                                                            TWO SW EXAM, CONT
TWO SW LOAD, CONT
NO SW 1ST EXAM
    012
                          01010
                                     11101011
                                                             353
    Ø13
                          01011
                                      11101011
                                                             353
                                      10111011
    014
                          01100
                                                             273
    Ø15
                13
                          01101
                                      11001010
                                                             312
                                                                            DEP SW1
    016
                          01110
                                      10101100
                                                             254
                                                                            EXAM AND 1ST EXAM 323
                                                                            LOAD GOTO 311
    017
                15
                          Ø1111
                                      11101110
                                                             356
    020
                15
                          10000
                                     11111000
                                                             370
                                                                            CONT-CLR DEP
                                                                            TWO SW #CONT.DEP
TWO SW EXAM.CONT
TWO SW LOAD.CONT
    Ø21
                17
                          10001
                                     11111011
                                                             373
    Ø22
                          10010
                                     11111011
                                                             373
    023
                          10011
                19
                                     11011011
                                                             333
                                                                           NO SW 1ST DEP
DEP SW2 GOTO 312
EXAM, 1ST DEP 317
LOAD GOTO 311
    024
                          10100
                                     11011011
                                                             333
                21
                          10101
                                     11011010
                                                             332
    025
                          10110
                                     10101000
                                                             250
    Ø27
                          10111
                                     11101110
                                                             356
    030
                          11000
                                      00000100
                                                             004
    Ø31
                          11001
                                      00000000
                                                             000
    032
                2 4
                          11010
                                      00000000
                                                             000
    Ø33
                2,
                          11011
                                      00000000
                                                             000
                                      00000000
    034
                2٩
                          11100
                                                             000
    035
                23
                          11101
                                     00000000
                                                             000
    Ø36
                3 1
                          11110
                                     00000000
                                                             000
    Ø37
                          11111
                                     000000000
                                                             000
                          *****

****/( A(PIN #10) IS CONE LOAD (1)L AND, DEP (1)L BAR

***/( B(PIN #11) IS CONE LOAD (1)L AND, EXAM (1)L BAR

**/( C(PIN #12) IS CONE CONT (1)L

*/( D(PIN #13) IS CONE IST EXAM (1)H
                          /( E(PIN #14) IS CONE 1ST DEP (1)H
```

/( =Y4 (PIN # 9) CONC SET BG Ø7 L

*/( #Y3 (PIN #10) CONC SET BG 06 L **/( #Y2 (PIN #11) CONC SET BG 05 L ***/( #Y1 (PIN #12) CONC SET BG 04 L OCTAL DATA Ø17 Ø17 OCTAL DECIMAL .... ADDRESS ADDRESS HGFEDCBA .... Ø17 1,2 00010001 00010010 Ø17 1111 1111 1111 Ø17 **Ø25** Ø27 Ø3Ø Ø17 Ø33 Ø17 Ø17 Ø37 Ø17

M7261-8 REV A

CONT

 $\mathcal{A}\mathcal{L}$ 

/( =Y4 (PIN # 9) CONC SET BG Ø7 L

+/( =Y3 (PIN #10) CONC SET BG 06 L ++/( =Y2 (PIN #11) CONC SET BG 05 L +++/( =Y1 (PIN #12) CONC SET BG 04 L DATA OCTAL DECIMAL **** HGFEDCBA ADDRESS ADDRESS **** 0111 Ø13 Ø17 Ø17 Ø111 Ø13 01001111 Ø111 Ø13 130 ( Ø111 

REV A M7261-8

****/( C(PIN #07) IS CONI LCLK INT L ***/( E(PIN #03) IS CONC BR 04 (1)L **/( F(PIN #02) IS DPE PSW 07 (0)H */( G(PIN #01) IS DPE PSW 06 (0)H /( H(PIN #15) IS DPE PSW 05 (0)H

/( =Y4 (PIN # 9) CONC SET BG Ø7 L +/( my3 (PIN #10) CONC SET BG 06 L ++/( #Y2 (PIN #11) COND SET BG Ø5 L ***/( #Y1 (PIN #12) CONC SET BG 04 L OCTAL DECIMAL ADDRESS ADDRESS .... OCTAL HGFEDCBA **** DATA Ø17 Ø17 Ø17 Ø17 Ø111 1111 Ø111 1111 Ø111 1111 214. Ø111 Ø17 23ø Ø07 0111 1111 Ø111 1111 

17261-8 REV A

Caro

/( EY4 (PIN # 9) CONC SET BG Ø7 L */( =Y3 (PIN #10) CONC SET BG Ø6 L **/( =Y2 (PIN #11) CONC SET BG Ø5 L ***/( #Y1 (PIN #12) CONC SET BG Ø4 L **** OCTAL **** DATA OCTAL DECIMAL ADDRESS ADDRESS HGFEDCBA Ø111 Ø13 Ø111 Ø17 LCLK Ø13 LCLK Ø13 Ø111 ·Ø9 311 LCLK 213 Ø13 215 217 218 219 Ø13 11011011 11011100 Ø111 1111 22ø Ø17

M7261-8 REU A

*********

*******/( A(PIN #05) IS CONC BR 07 (1)L

******/( B(PIN #06) IS CONC BR 06 (1)L

*****/( C(PIN #07) IS CONI LCLK INT L

****/( Q(PIN #04) IS CONC BR 05 (1)L

***/( E(PIN #03) IS CONC BR 04 (1)L

**/( F(PIN #02) IS DPE PSW 07 (0)H

*/( G(PIN #01) IS DPE PSW 06 (0)H

/( H(PIN #15) IS DPE PSW 05 (0)H

Mr. H. James

H 36 -

大学 "

			44 -44 45	<b></b>
				IN # 9) Y4
				PIN #10) Y3
				(PIN #11) Y2
			***/( #Y1	
OCTAL		·	* * * *	OCTAL .
ADDRESS	ADDRESS	HGPEDÇBA	* * • •	DATA
000	Ø	<b>00000000</b>	ଡ୍ଡ୍ଡ୍	000
001	1	00000001	ଷ୍ଟ୍ର	ଡ଼ଡଟ
202	2	00000010	ØØØØ	ପ ତ ପ
003	3	00000011	ØØØØ	ଷ୍ଥିଷ
004	4	00000100	ଷଷଷଷ	ମ ଥ ଥ
Ø Ø 5	5	00000101	ଷ୍ଡଷ୍ଡ	8 <b>0</b> 8
ଅଷ୍ଟ	6	00000110	0000	Ø Ø Ø
ØØ7	7	00000111	ଅପ୍ତର	000
Ø1Ø	8	0001000	0000	ØØØ
Ø11	9	00001001	ଡଡଡେଡ	Ø Ø Ø
Ø12	10	00001010	0000	000
Ø <b>1</b> 3	11	00001011	ଉଷ୍ଟର	ଡ଼ଅଷ
214	12	00001100	ଉଷ୍ଟର	ଷ୍ଷଷ
Ø15	13	00001101	ଷ୍ଟ୍ରପ୍ର	Ø Ø Ø
Ø16	14	00001110	0000	ଷ୍ଷଷ
Ø17	1,5	00001111	0000	<b>ଡ</b> ଡଡ
Ø2Ø	16	ଉପ୍ତର୍ଶ ପ୍ରତ୍ତ	0000	ଷଷଷ
21	17	00010001	Ø Ø Ø Ø	ପ୍ରଥ
Ø22	1,8	00010010	ଷ୍ଥ୍ୟ	Ø Ø Ø
023	19	00010011	ଷ୍ୟଷ୍	୭୭୭
Ø24	20	00010100	ଅନ୍ତନ	ଷ୍ଷଷ
Ø25	21	00010101	ଷଷଷଷ	000
Ø26	22	00010110	0000	<b>000</b>
027	23	00010111	ଷ୍ୟଷ୍ଷ	Ø Ø Ø
Ø3Ø	24	00011000	0000	000
931	25	00011001	ଡ଼େଉପଡ	Ø Ø Ø
032	26	00011010	0000	000
Ø <b>3</b> 3	27	00011011	0000	ଷ୍ଥଷ
Ø34	28	00011100	9999	ଉଷ୍ଡ
Ø <b>3</b> 5	29	00011101	7000	<b>ଅ</b> ଉଷ
Ø36	3ø	00011110	ଷ୍ଟ୍ରପ୍ର	Ø Ø Ø
237	31			

M7261-8 REV A

240	32	00100000	<b>0000</b>	000	
Ø41	<b>3</b> 3	00100001	0000	000	
742	34	00100010	0000	000	
043	35	00100011	9999	ติอฮ	
Ø44	36	00100100	5000	Ø Ø Ø	
045	37	00100101	0000	808	
Ø46	38	00100110	0000	500	
047	39	00100111	0000	000	
Ø5Ø	40	00101000	0000	000	
Ø51	41	00101001	0000	000	
752	42	00101010	0000	000	
Ø53	43	00101011	ติดิตด	000	
054	44	00101100	0000	000	
055	45	00101101	0000	ଷ ହ ଷ	
Ø56	46	00101110	0000	888	
<b>257</b>	47	00101111	0000	000	
ଅଟମ	48	00110000	9000	000	
Ø61	49	00110001	9 <b>9</b> 99	888	
962	50	00110010	0000	000	
Ø63	51	00110011	0000	800	
064	52	00110100	0000	000	
Ø 65	<b>5</b> 3	00110101	9 <b>9</b> 0 <b>9</b>	000	
Ø66	54	00110110	0000	000	
267	55	00110111	9 <b>9</b> 99	000	
270	56	00111000	990 °	000	
Ø71	57	00111001	0000	000	
072	58	00111010	ØØ Ø Ø	000	
Ø73	59	00111011	0000	000	
774	60	00111100	5999	000	
Ø75	61	00111101	0000	000	
Ø76	62	00111110	0000	200	
ダフフ	63	00111111	0000	000	
		*****	- · · · -	r = -	
		******/( A	(PIN #05) IS	CONA BA	2 (1
			PIN #06) IS	CONA BA Ø	

********

*******

*******

******

G(PIN #05) IS CONA BA 02 (1)H

******

G(PIN #07) IS CONA BA 07 (1)H

*****

C(PIN #04) IS CONA BA 03 (1)H

****

E(PIN #03) IS CONA BA 04 (1)H

***

F(PIN #03) IS CONA BA 04 (1)H

**/

G(PIN #01) IS CONA BA 07 (1)H

// H(PIN #15) IS CONA BA 06 (1)H

WH + 22

// c. .

M7261-8 REV A

140	96	01100000	ଷ୍ଟ୍ରଷ୍ଟ	000	
1.41	97	01100001	0000	Ø Ø Ø	
1.42	98	01100010	0000	000	
143	99	01100011	0000	000	
144	100	01100100	0000	Ø Ø Ø	
1.45	101	01100101	0000	000	
1.46	102	01100110	0000	000	
1.47	103	01100111	0000	øøø	
150	104	01101000	ଉପ୍ପପ	ଜ୍ଜ	
1.51	105	01101001	ଷ୍ଟ୍ରପ୍	គួល៩	
1,52	106	01101010	0000	<b>600</b>	
1,53	107	01101011	0000	Ø Ø Ø	
1,54	108	01101100	0000	Ø Ø Ø	
1.55	109	01101101	0000	<b>600</b>	
156	110	01101110	0000	600	
1.57	111	01101111	0000	600	
1,60	112	01110000	ଅଷ୍ଟର	<b>9</b> 00	
1.61	113	01110001	0000	ದ છ ರ	
1,62	114	01110010	ଷଷଷଷ	000	
1,63	115	01110011	0000	<b>ಶ</b> Ø Ø	
164	116	01110100	ଷଷ୍ଟ୍ର	000	
1,65	117	01110101	9000	000	
1.66	118	01110110	0000	000	
1,67	119	01110111	<b>ଅପ୍ରୟ</b>	000	
\$7Ø	120	01111000	0000	000	
171	121	01111001	ଷଷଷଷ	000	
1,72	122	01111010	0000	000	
1.73	123	01111011	0000	000	
1.74	124	01111100	0000	000	
1,75	125	01111101	0000	000	
1.76	126	01111110	9000	000	
1,77	127	01111111	ØØØØ	000	
		*******			. 1.1
			PIN #05) IS	CONA BA 22 (1)	
			IN #06) IS		ł
		*****/( C(P)		CONA BA ØØ (1)H	
		++++/( D(PIN		ONA BA #3 (1)H	
				NA BA 04 (1)H	
		**/{ F(PIN # */( G(PIN #Ø		A BA Ø5 (1)H	
		/( H(PIN #15		BA 07 (1)H	
		A MILIN ATS	) IS CONA I	BA 06 (1)H	

			/( #Y4 (P)	N # 9) Y4	
				PIN #10) Y3	-
				(PIN #11) Y2	
			***/( #Y1	(PIN #12) YL	
OCTAL	DECIMAL			OCTAL	
ADDRESS	ADDRESS	HGFEDCBA	* * * *	DATA	
200	128	10000000	0000	800	
201	129	100000001	0000	000	
202	130	10000010	5000	000	
203	131	10000011	0000	000	
204	132	10000100	0000	ØØØ	
205	133	10000101	0000	000	
206	134	10000110	0000	000	
207	135	10000111	9999	200	
210	136	10001000	0000	000	
211	137	10001001	0000	000	
212	138	10001010	0000	800	
213	139	10001011	0000	000	
214	140	10001100	0000	000	
215	141	10001101	0000	700	
216	142	10001110	0000	Ø Ø Ø	
217	143	10001111	0000	000	
220	144	10010000	0000	ØØ0	,
221	145	10010001	0000	000	
222	146	10010010	0000	000	
223	147	10010011	9999	Ø Ø Ø	
224	148	10910100	9999	Ø Ø Ø	
225	149	10010101	0000	000	
226	150	10010110	0000	000	
227	151	10010111	0000	000	
230	152	10011000	0000	000	
231	153	10011001	0000	000	
232	154	10011010	0000	000	
233	155	10011011	0000	000	
234	156	10011100	0000	000	
235	157	10011101	0000	000	
236	158	10011110	9000	000	
237	159	10011111	0000	000	

## M7261-8 REI A

```
240
                     10100000
                                           0000
                                                              000
241
            161
162
163
                                            0000
                      10100001
                                                              000
242
                      10100010
                                            0000
                                                              000
                     10100011
10100100
10100101
10100110
243
                                            0110
                                                                              KW11=L LINE CLK CSR
                                                              006
            164
244
                                           0000
                                                              000
245
            165
                                            0000
                                                              000
                                                                                                                                                 - A James Company
246
                                            0000
            166
                                                              000
                      10100111
247
            167
                                            0101
                                                              005
                                                                              KW11+L (ODD BYTE)
250
            168
                                           0000
                                                              000
251
            169
                      10101001
                                            0000
                                                              000
252
            170
                      10101010
                                            0000
                                                              000
            171
172
253
                      10101011
                                            0000
                                                              000
254
                      10101100
                                            0000
                                                              000
255
            173
                      10101101
                                            0000
                                                              000
256
            174
                      10101110
                                            0000
                                                              000
257
                      10101111
                                            9000
                                                              000
                                                                              TKS TTY KEYBOARD CSR
TPS PRINTER CSR
TKB TTY KEYBOARD 681
TPB TTY PRINTER 08R
260
            176
                                           1000
                      10110000
                                                              010
261
                      10110001
            177
                                           014
262
263
            178
179
                      10110010
                                                              012
                                                                                                         DBR
                     616
                                                                              TKS (QDD BYTE)
TPS (QDD BYTE)
TKB (QDD BYTE)
TPB (QDD BYTE)
TPB (QDD BYTE)
SWITCH REGISTER
            180
181
264
                                                              005
265
                                                              005
266
            182
                                                              005
267
            183
                                                              005
                      10111000
270
            184
                                                              007
            185
                      10111010
272
            186
                                            0000
                                                              000
273
            187
                      10111011
                                            9999
                                                              000
274
275
             188
                      10111100
                                            0111
                                                              007
                                                                              CONSOLE SW REG', (ODD BYTE)
            189
                      10111101
                                            0000
                                                              000
276
                      10111110
            190
                                            0000
                                                              000
277
            191
                      10111111
                                            0000
                                                              000
                      ******
                      *******/( A(PIN #05) IS CONA BA 02 (1)H
                     *******/( A(PIN #05) IS CONA HA 02 (1) H

*****/( B(PIN #06) IS CONA HA 00 (1) H

*****/( C(PIN #07) IS CONA HA 00 (1) H

****/( C(PIN #04) IS CONA HA 04 (1) H

***/( F(PIN #03) IS CONA HA 04 (1) H

*// F(PIN #02) IS CONA HA 05 (1) H

// H(PIN #15) IS CONA HA 06 (1) H
```

			*/( =Y3 (	PIN #10) Y3	5	
			++/( =Y2	(PIN #11) Y	2	
			***/( #Y1	(PIN #12)	Y1	
OÇTAL	DECIMAL		* * * *	OCTAL		
ADDRESS	ADDRESS	HGFEDCBA	+ + + +	DATA		
300	192	11000000	0001	ØØ1	REG RØ	
301	193	11000001	0001	701	REG RA	
302	194	11000010	8Ø8 <b>1</b>	ØØ1	REG R2	
303	195	11000011	0001	ØØ1	REG R6	
304	196	11000100	0001	ØØ1	REG R1	
305	197	11000101	000 <b>1</b>	ØØ1	REG R5	
306	198	11000110	0001	901	REG R3	
307	199	11000111	0001	001	REG R7	
310	200	11001000	ØØ <b>01</b>	001	REG RIØ	j
311	201	11001001	00 <b>01</b>	ØØ1	REG RIA	
312	202	11001010	ØØØ1,	901	REG R12	
313	203	11001011	0001	ØØ1	REG R16	
314	204	11001100	6001	ØØ1	REG R11	
315	205	11001101	0001	001	REG R15	
516	206	11001110	0001	Ø Ø 1	REG R13	,
317	207	11001111	00 <b>01</b>	ØØ1	REG R17	
520	208	11010000	ଜାଷ୍ଟର୍ଷ	Ø Ø Ø	•	
321	209	11010001	គួលស្	Ø Ø Ø		
322	210	11010010	ଜଡ଼ଜଡ଼	ଜାପ୍ତ		
323	211	11010011	ଜନ୍ଧନ	ଷ୍ଡଣ		
324	212	11010100	ଜ୍ଞକ୍ତ	ମ୍ୟର		
325	213	11010101	ଷ୍ଟ୍ରପ୍	ଷ୍ଷ୍ଷ		
326	214	11010110	തെയ്ത്	ମ୍ୟର		
327	215	11010111	ଜ୍ୟତ୍ତ	៩១៩		
330	216	11011000	0000	ров		
331	217	11011001	ମ୍ୟୁ ମ୍ୟୁ	000		
332	218	11011010	ត្សាស្វា	កស្គ		
333	219	11011011	ଷ୍ଥ୍ୟ	ଉଷ୍ଡ		
334	220	11011100	Ø Ø Ø Ø	000		
335	221	11011101	ଜନ୍ମନ	000		
336	222	11011110	9090	ភេឌ្ឌ		
337	223	11011111	0000	000		

/( =Y4 (PIN # 9) Y4

## M7261-8 REV A

```
11100000
                                      0000
          224
341
342
343
344
          225
226
227
228
229
                   11100001
                                      agag
                                                      000
                   11100010
                                      0000
                                                       999
                  11100011
                                      0000
                                                      000
                                      0000
                                                       000
                  11100101
345
                                      0000
                                                       000
346
           230
                                      7000
                                                       000
          231
232
347
                                      0000
                                                       700
350
                                      9090
                                                       000
                   11101001
351
           233
                                      9000
                                                       000
352
           234
                                      9000
                                                       aga
353
           235
                   11101011
                                      0000
                                                       000
354
           236
                   11101100
                                      0000
                                                       Ø Ø Ø
           237
355
                   11101101
                                      0000
                                                       000
356
           238
                   11101110
                                      7000
                                                       000
                   11101111
357
           239
                                      0000
                                                       Ø Ø Ø
                  11110000
           240
360
                                      0000
                                                       000
361
                                      03 03 03 03
362
           242
                                      0000
                   11110010
                                                       000
           243
244
245
                   11110011
363
                                      0000
                                                       000
364
                                      0000
                                                       000
365
                   11110101
                                      0000
                                                       000
           246
247
                   11110110
                                      0000
366
                                                       000
367
                   11110111
                                      0000
                                                       000
370
           248
                                      0000
                   11111000
                                                       000
371
           249
                   11111001
                                      0000
                                                       000
                   11111010
11111011
11111100
11111101
372
           250
                                      0000
                                                       000
373
                                                       ØØ2
           251
                                      0010
                                                                     PSW
374
           252
                                                       000
                                      0000
375
           253
                                      0000
                                                       000
376
           254
                   11111110
                                      9999
                                                       000
377
           255
                   1111111
                                      7010
                                                       002
                                                                    PSW (ODD BYTE)
                   ******** A(PIN #05) IS CONA BA 02 (1)H
                   +++++/( B(PIN #06) IS CONA BA 01 (1)H
                   *****/( D(PIN #04) IS CONA BA 03 (1)H

***/( E(PIN #03) IS CONA BA 04 (1)H

**/( F(PIN #02) IS CONA BA 05 (1)H

*/( G(PIN #01) IS CONA BA 07 (1)H

/( H(PIN #15) IS CONA BA 06 (1)H
```

7	JUL	72	23=AØ9A2

			/( =Y4 (F	PIN # 9) CO	NE MPC Ø4 L	
			*/( #Y3	PIN #10) C	ONF MPC Ø1 L	
		• '	++/( =Y2		CONF MPC 02 L	
			+++/( #Y			
OCTAL	DECIMAL			OCTAL	COMP MEC DO C	
ADDRESS	ADDRESS	HGFEDCBA		DATA		
1100	S S S S S S S S S S S S S S S S S S S	00000000	1100		·	
101		00000000 00000001	at the	914	. <u>T</u>	
ØØ2	1		1100	Ø14	<b>Y</b>	
	2	00000010	1100	014	<b>'</b>	
993	3	00000011	1100	Ø14	<b>T</b>	
8124	4	00000100	1100	014	<b>Y</b>	
195	5	00000101	1100	Ø14	<b>"</b>	
1106	6	00000110	1100	Ø14	7 .	
<b>∅Ø7</b>	7	00000111	1100	Ø14	4	
51 <b>1,</b> Ø	8	00001000	1100	Ø14	Ч	
1111	9	00001001	1100	Ø14	T	
#112	10	00001010	1100	Ø14	٣	
<b>113</b>	11	00001011	1100	Ø14	T	
1114	12	00001100	1100	014	Ŧ	
915	13	00001101	1100	<b>014</b>	<b>y</b>	
916	Ĩ4	00001110	1100	Ø14	<b>y</b>	
Ø17	Ĩ5	00001111	1100	Ø14	*	
1120	16	00010000	1100	Ø14	·r	
721	17	00010001	1100	Ø14	Ÿ	
<b>#22</b>	18	00010010	1100	Ø14	Ÿ	
223	19	00010011	1100	014	Ÿ	
724	20	00010100	1100	014	Ý	
<b>#25</b>	21	00010101	1100	Ø14	Ý	
Ø26	22	00010110	1100	Ø14	Ÿ	
Ø 27	23	00010111	1100		Ÿ	
73ø	24			014	· ·	
		00011000	1100	Ø14		
731	25	00011001	1100	014	<b>Y</b>	
Ø32	26	00011010	1100	Ø14	<u>"</u>	
Ø33		00011011	1100	014	Ý	
234	28	00011100	1100	014	<b>"</b>	
735	29	00011101	1100	714	<b>"</b>	
736	30	00011110	1100	Ø14	<b>"</b>	
237	31	00011111	1100	Ø14	4	

M7261-8 REV A

```
040
                          00100000
                                                     1100
                                                                           741
                          00100001
                 33
042
043
                 34
35
                          00100010
                         00100011
00100100
00100101
00100101
                 36
37
744
045
046
                 38
                          00100111
00101000
747
                 39
050
                 40
051
                 41
                          00101001
                                                     Ø52
                 42
                          00101010
Ø53
                 43
                          90101011
054
                 44
                          00101100
Ø55
                 45
                          00101101
Ø56
                 46
                          00101110
Ø57
                 47
                          00101111
                                                                           014
                                                                           Ø14
Ø14
Ø14
Ø6Ø
                 48
                          00110000
                          00110001
00110010
00110011
                 49
                                                     1100
Ø61
Ø62
                 50
                                                     1100
Ø63
                 51
52
53
                                                     1100
                                                                           014
014
014
014
014
014
                          90110100
90110191
                                                    Ø64
Ø65
                 54
55
56
Ø66
Ø67
                          00110110
                          00110111
070
                          00111000
071
                 57
                          00111001
                         Ø72
                 58
973
                 59
                                                                           Ø14
Ø14
Ø14
074
                 60
Ø75
                 61
Ø76
                 62
977
                                                    1100
                                                                           Ø14
                          *******

******/( A(PIN #05) IS CONB STACKFLOW (1)L

*****/( B(PIN #06) IS CONH PDWN SYNC (1)L

*****/( C(PIN #07) IS CONI LCLK INT (1)L

****/( D(PIN #04) IS CONE STOP (1)L

***/( E(PIN #03) IS DPH RCD INT (1)L

**/( F(PIN #02) IS DPH XMIT INT (1)L

*/( G(PIN #01) IS DPG WAIT L

/( H(PIN #15) IS DPE T DEL (1)L
```

/( =Y4 (PIN # 9) CONF MPC Ø4 L +/( =Y5 (PIN #10) CONF MPC Ø1 L +*/( =Y2 (PIN #11) CONF MPC Ø2 L +**/( =Y1 (PIN #12) CONF MPC ØØ L OCTAL DECIMAL ADDRESS ADDRESS DATA *** HGPEDCBA **** 01000011 Ø14 72 73 74 75 Ø14 Ø14 113 77 79 Ø14 120 121 014 124 125 126 Ø14 01010111 010111000 Ø14 Ø14 132 01011010 

23-A09A2-Ø

M7261-8 REV A

1,40	96	01100000	1100	Ø14	T	
141	<b>₹</b> 7	01100001	1100	014	Ŧ	
142	⊊ક	01100010	1100	Ø14	₹	
143	99	01100011	1100	Ø14	₹	
144	100	01100100	1100	014	Ŧ	
145	101	01100101	1100	014	₹	
146	102	01100110	1100	014	7	
147	103	01100111	1100	Ø14	T	
150	104	01101000	1100	014	T	
151	(05	01101001	1100	014	*	
152	106	01101010	1100	014	*	
153	107	01101011	1100	014	Ŧ	
154	198	01101100	1100	Ø14	*	
155	109	01101101	1100	Ø14	₹	
156	110	01101110	1100	014	₹	
157	111	01101111	1100	014	Ť	
160	112	01110000	1100	014	Ť	
161	113	01110001	1100	Ø14	Ť	
162	114	01110010	1100	014	÷	
163	115	01110011	1100	Ø14	Ť	
164	116	01110100	1100	Ø14	÷	
165	117	01110101	1100	014	Ť	
166	118	01110110	1100	Ø14	÷	
167	119	01110111	1100	Ø14	Ť	
170	120	01111000	1100	014	÷	
171	121	01111001	1100	Ø14	÷	
172	122	01111010	1100	Ø14	÷	
173	123	01111011	1100		Ť	
174	124	01111101	1100	Ø14	Ť	
175	125	01111101	1100	Ø14	Ť	
176	126	01111110	1100	Ø14	* <b>T</b>	
177	127	01111111	1100	Ø14	÷	
/	Tr/		7100	014	1	
		********	(PIN #05) I	S CONB STA	CKFLOW (1)	
			PIN #06) IS		SYNC (1)L	
			IN #07) IS		INT (1)	•
				CONF STOP (		
			#03) IS D			

********

********

*******/( A(PIN #05) IS CONB STACKFLOW (1)L

******/( B(PIN #06) IS CONH POWN SYNC (1)L

*****/( C(PIN #07) IS CONI LCLK INT (1)L

****/( D(PIN #04) IS CONE STOP (1)L

***/( E(PIN #03) IS DPH RCD INT (1)L

**// F(PIN #03) IS DPH XMIT INT (1)L

*// G(PIN #01) IS DPG WAIT L

// H(PIN #15) IS DPE T DEL (1)L

/( BY4 (PIN # 9) CONF MPC Ø4 L

					Mar interior to A. P.	
			+/( #Y3	(PIN #10) C	ONF MPC Ø1 L	
			++/( BY2	(PIN #11)	CONF MPC 02	L
			***/{ EY	1 (PIN #12)	CONF MPC 00	L
OCTAL	DECIMAL			OCTAL		_
ADDRESS	ADDRESS	HGPEDCBA	* * * †	DATA		
200	128	10000000	1001	011	STKFL	
201	129	10000001	1010	Ø12	PWRF	
202	130	10000010	1001	Øii	STKFL	
203	131	10000011	1011	Ø13	LCLK.	
204	132	10000100	1001	Ø11	STKFL	
205	133	10000101	1010	Ø12	PWRF	
206	134	10000110	1001	Ø11	STKFL	
207	135	10000111	0101	Ø Ø 5	RCD	
210	136		1001	Ø11	STKFL	
		10001000				
211	137	10001001	1010	Ø12	PWRF	
212	138	10001010	1001	Ø11	STREL	
213	139	10001011	1011	013	LCLK.	
214	140	10001100	1001	011	STKPL	
215	141	10001101	1010	012	PWRF	
216	142	10001110	1001	Ø11	STKFL	
217	143	10001111	0101	005	RCD	
220	144	10010000	1001	Ø11	STKFL	
221	145	10010001	1010	Ø12	PWRF	
222	146	10010010	1001	011	STKPL	
223	147	10010011	1011	Ø13	LÇLK	
224	148	10010100	1001	Ø14	STKFL	
225	149	10010101	1010	Ø12	PWRF	
226	150	10010110	1001	Ø11	STKPL	
227	151	10010111	Ø111	007	XMIT	
230	152	10011000	1001	Ø11	STKFL	
231	153	10011001	1010	Ø12	PWRF	
232	<u>1</u> 54	10011010	1001	011	STKFL	
233	155	10011011	1011	Ø13	LCLK	
234	156	10011100	1001	011	STKFL	
235	157	10011101	1010	Ø12	PHRE	
236	158	10011110	1001	Ø11	STKFL	
237	159	10011111	0111	Ø Ø 7	XMIT	

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240	160	10100000	1001	Ø11	STKFL.
241	161	10100001	1010	012	PWRF
242	162	10100010	1001	011	STKFL.
243	163	10100011	1011	Ø13	LCLK"
244	164	10100100	1001	Ø11	STKFL.
245	165	10100101	1010	012	PWRF
246	166	10100110	1001	01 <u>1</u>	STKFL
247	167	10100111	0101	005	RCD
25Ø	168	10101000	1001	Ø11	STKFL,
251	169	10101001	1010	Ø12	PWRF.
252	170	10101001	1001	Ø11	STKPL
253	171	10101010	1011	Ø13	LCLK
254	171			Ø11	
255	173	10101100	1001		STKFL PWRF
256	173	10101101	1010	012	
256 257		10101110	1001	Ø11	STKFL
257 268	175	10101111	0101	ØØ5	RCD
	176	10110000	1001	Ø14	STKFL
261	177	10110001	1010	Ø12	PWRF
262	178	10110010	1001	011	STRPL
263	179	10110011	1011	<b>013</b>	LCLK.
264	180	10110100	1001	011	STKPL
265	481	10110101	1010	Ø12	PWRF
266	182	10110110	1001	011	STKPL
267	183	10110111	1110	Ø16	STOP
27 Ø	184	10111000	1001	011	STKFL
271	185	10111001	1010	<b>012</b>	PWRF
272	186	10111010	1001	Ø11	STKFL
273	187	10111011	1011	<b>013</b>	LCLK
274	188	10111100	1001	Ø11	STKFL
275	189	10111101	1010	Ø12	PWRF
276	190	10111110	1001	Ø11	STRFL
277	191	10111111	0010	002	WAIT
		******			
				IS CONB STA	CKFLOW (1)L
		******/{ B(	PIN #06) IS	CONH POWN	SYNC (1)L
		*****/( C(P	IN #07) IS	CON! LCLK	INT (1)L
		***!/( D(P)		CONE STOP	1) [
		***/( E(PIN		PH RCD INT	(1)L
				PH XMIT INT	(1)L
			DI) IS DPC	S WAIT L	
		// HIPIN #1			

= 26 or i

			/( #Y4 (!	PIN # 9) CC	NF MPC Ø4 L
			*/( #Y3	(PIN #10) C	ONF MPC Ø1 L
			++/( #Y2	(PIN #11)	
			***/( #Y		
OC TAL	DECIMAL		* * * *	OCTAL	
ADDRESS	ADDRESS	HGFEDCBA	* * * *	DATA	
300	192	11000000	1001	Ø11	STKFL
301	193	11000001	1010	Ø12	PWRF
302	194	11000010	1001	111	STRFL
303	195	11000011	1011	Ø13	LCLK
304	196	11000100	1001	Ø11	STKFL
305	197	11000101	1010	012	PWRF
3Ø6	198	11000110	1001	Ø11	STKFL
3.07	199	11000111	0101	Ø Ø 5	RCD
310	200	11001000	1001	Ø11	STKPL
311	201	11001001	1010	Ø12	PWRF
312	202	11001010	1001	Ø11	STKFL
313	203	11001010	1011	Ø13	
314	204	11001011	1001	Ø11	LCLK STKFL
317 315	205	11001100			PWRF
316	206		1010	012	
317	207	11001110	1001	011	STKFL
320	207	11001111	0101	005	RCD
		11010000	1001	Ø11	STKFL
321	209	11010001	1010	Ø12	PWRP
322	210	11010010	1001	Ø11	STKFL
323	211	11010011	1011	Ø13	rark.
324	212	11010100	1001	Ø11	STKPL
325	213	11010101	1010	Ø12	PWRF
326	214	11010110	1001	Ø11	STKFL
327	215	11010111	Ø111	ØØ7	XMIT
330	216	11011000	1001	Ø11	STKFL
331	217	11011001	1010	Ø12	PWRF
332	218	11011010	1001	Ø11	STRFL
333	219	11011011	1011	Ø13	FCFK
334	220	11011100	1001	011	STKFL
3.35	221	11011101	1010	Ø12	PWRF
3.36	222	11011110	1001	Ø11	STKFL
337	223	11011111	0111	007	XMIT

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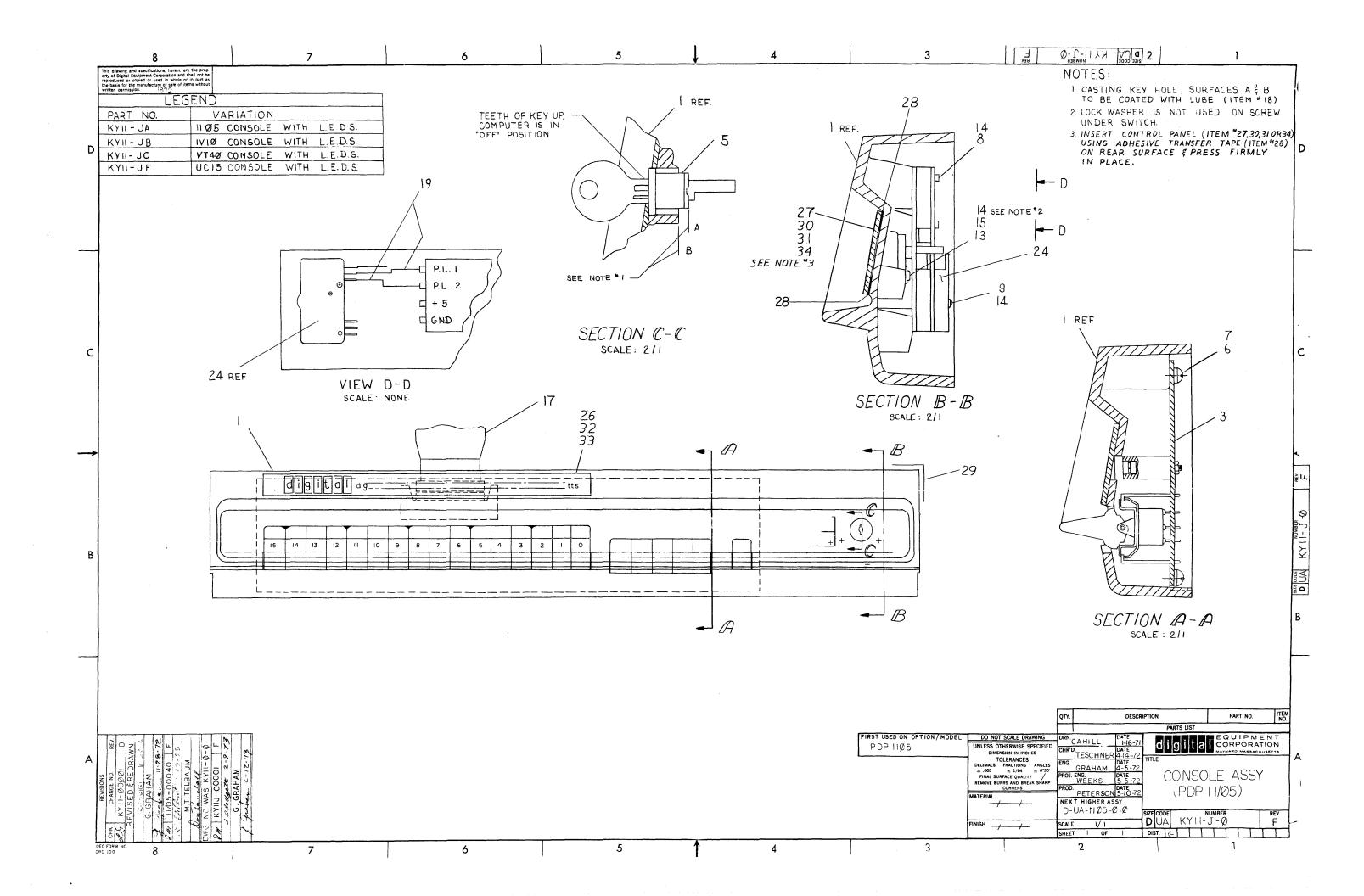
340	224	11100000	1001	011	STKFL
341	225	11100001	1010	Ø12	PWRF
342	226	11100010	1001	011	STKPL
343	227	,	1011		
		11100011		Ø13	LCLK
344	228	11100100	1001	Ø11	STKFL
345	229	11100101	1010	Ø12	PWRF
346	536	11100110	1001	011	STKFL
347	?31	11100111	<b>0101</b>	005	RÇD
350	232	11101000	1001	011	STKFL
351	<b>*33</b>	11101001	1010	Ø12	PWRF
352	?34	11101010	1001	Ø11	STKFL
353	?35	11101011	1011	Ø13	LCLK
354	236	11101170	1001	011	STKFL
355	237	11101171	1010	Ø12	PWRF
356	238	11101110	1001	Ø11	STKFL
357	239	11101111	0101	ØØ5	RCD
360	240	11110000	1001	Ø11	STKFL
361	241	11110001	1010	Ø12	PWRF
362	242	11110010	1001	Ø11	STKFL
363	243	11110011	1011	Ø13	LCLK
364	244	11110100	1001	011	STRFL
365	945	11110101	1010	Ø12	PWRF
366	246	11110110	1001	011	STKPL
367	247	11110111	1110	Ø16	STOP
370	248				STKFL
		11111000	1001	Ø11	BINE
371	249	11111001			

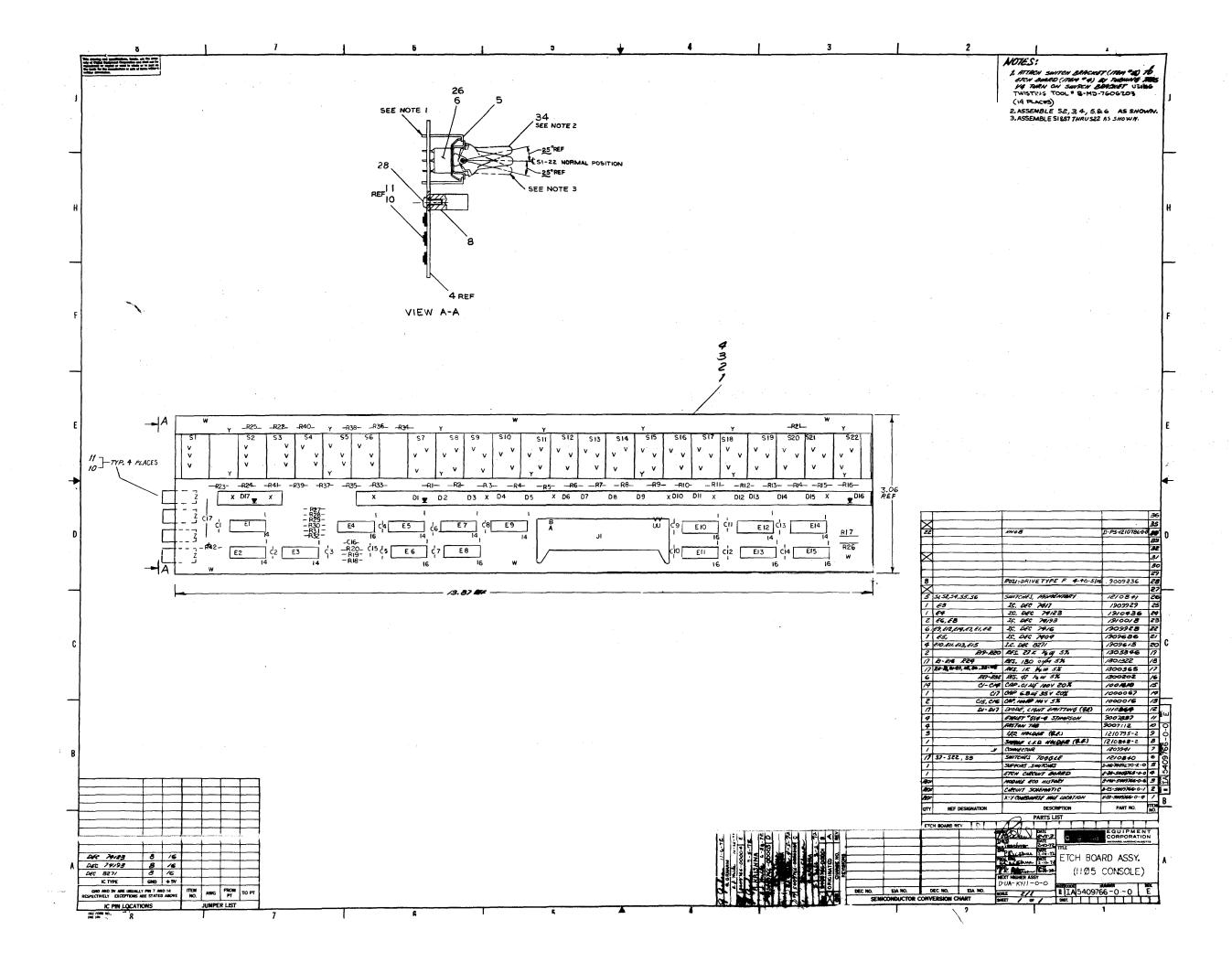
1) Con

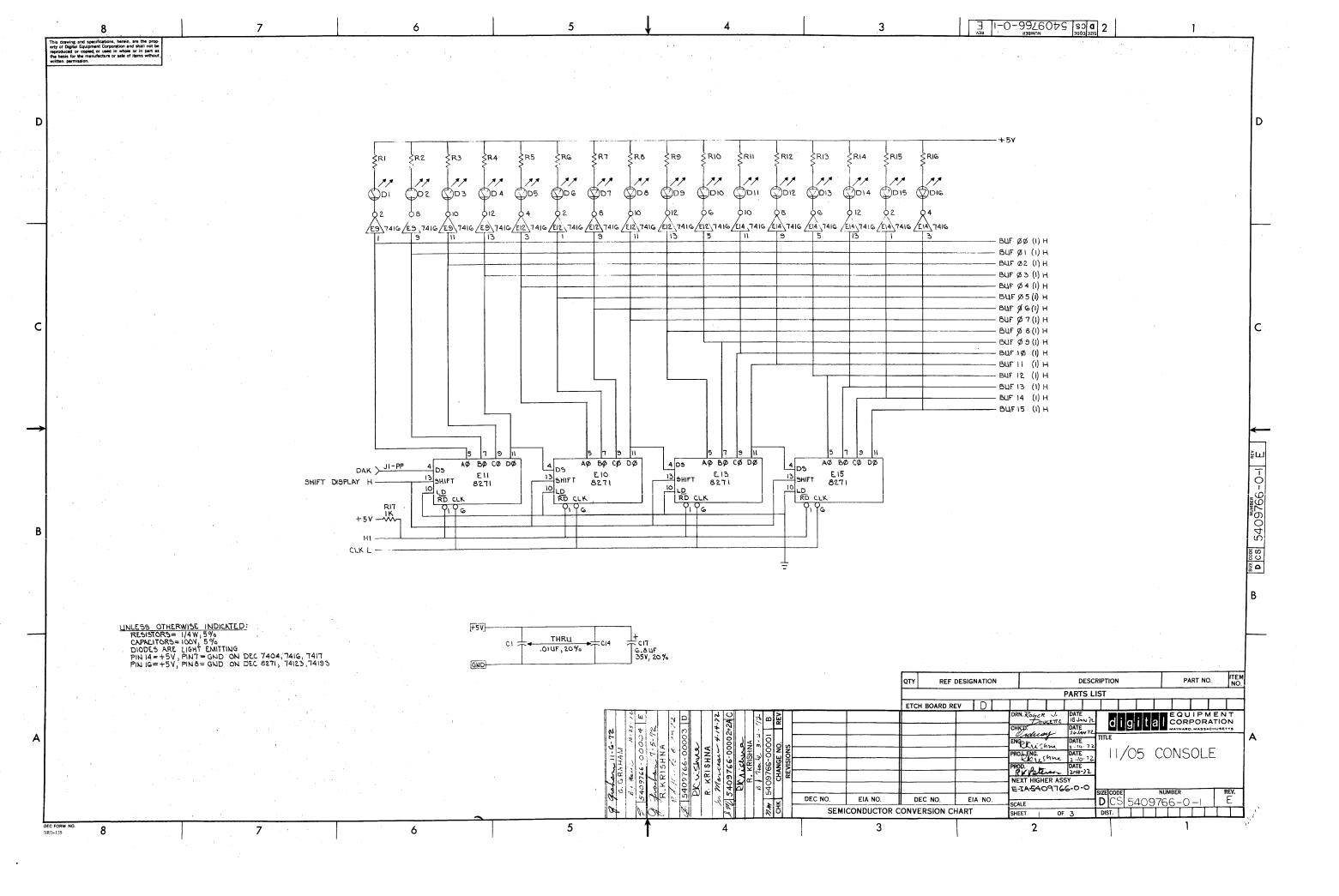
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

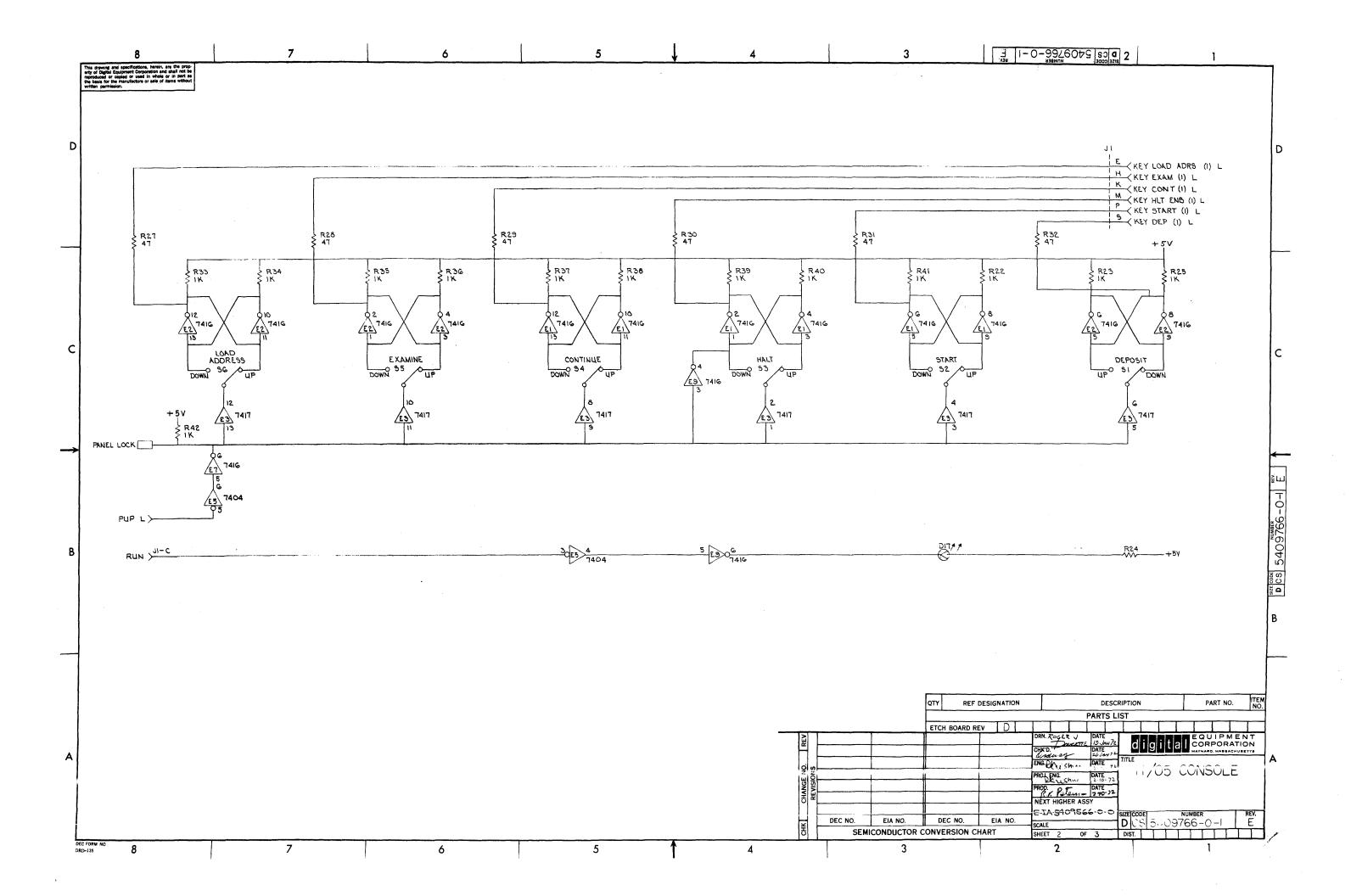
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	DIGITALEQ	UIPMENT CORPORATION ARD, MASSACHUSETTS			Q	UAN	ITI	TΥ	VA	RIA	TIC	N		
DATE	E BY R. ROBICHAUD	PARTS LIST  CHECKED C. TESCHNER SECTION DATE 5-1-72 1  PROD R. K. PETERSON ISSUED SECT. DATE 5-10-72 1	KY11TA	KY11-JB	KY11-JC	KY11-JF		·						
NO.	DWG NO. / PART NO.	DESCRIPTION	5											
1 2	D=MD-7410799-0-0 E=1A-7409374-3-0	CONSOLE BEZEL REWORK  BEZEL CONSOLE (11/10)	1	1	1. ×	1								
3	E-IA-5409766-0-0	CONSOLE ETCH BOARD ASSY	1	1	1	1						$\dashv$		
4	E=IA=5/109766-2-0	CONSOLE ETCH BOARD ASSY (OPOCA)	×	×	-1									
5	A-PS-121097 <b>5</b> -0-0	LOCK & CAM ASS'Y	1	1	1	1								
6	9006020-1	SCR, PHL PAN HD. #6-32 X 1/4 LG	6	6	6	6								
7	9006633	WASH INT TOOTH LOCK #6	6	6	6	6								
8	9006003-1	SCR PHL PAN HD # 2-56 X 3/8 LG	2	2	2	2								
9	9008025-1	SCR PHL PAN HD #2-56 X 5/8 LG	2	2	2	2								
10	<del>121079()-0-0</del>	SWITCH DPST N.O.	1	1	1									
11	C-MD-7/109534-0-0	ACTUATOR RE-WORK	][_1	1	==									
12	<del>121090</del> ~ 1	INSULATOR	2	2	2					,				
1.3	B-IA-7409444-0-0	DETENT	] 1	1	1	1								
14	9006686	WASH #2 SPLIT LOCK	5	5	5	6								
15	9006000- <b>-</b>	SCR BINDER HD #2-56 X3/16 LG	2	2	2	2								
16	121090/-1	SWITCH TMD-5201 (COLD CONTACT 291-5201-0	*1-	1	1									
17	C-UA-B(08R-Ø3	I/O CABLE (3'-0" LG)	] 1	1	1_1_	1								
18	4901077	LUBE (FOR CAM LOCK)	A/	RA/I	RA/F	A/R								
19	B-IA-7409730-0-0	JUMPER, POWER	2	2		2								
20	в-мр-7/09868-0-0	SWITCH ADAPTER PLATE	E	1	1									
21	B-MD-7499867-0-8	EXTENDER LEAF REWORK (ACTUATOR)	1	1	==									
22	9008449=2	SCR PMD FLAT HD #2-56 X 1/4 LG.	] 2	2	2			<u> </u>						
TITL	E CONSOLE ASSY (PDP11/0	ASSY NO. D-UA-KY11-J-Ø  SHEET 1 OF 2  DIS	PL		KY]	, N L <b>1-</b> J	-Ø	BER	1				KYII.	J -

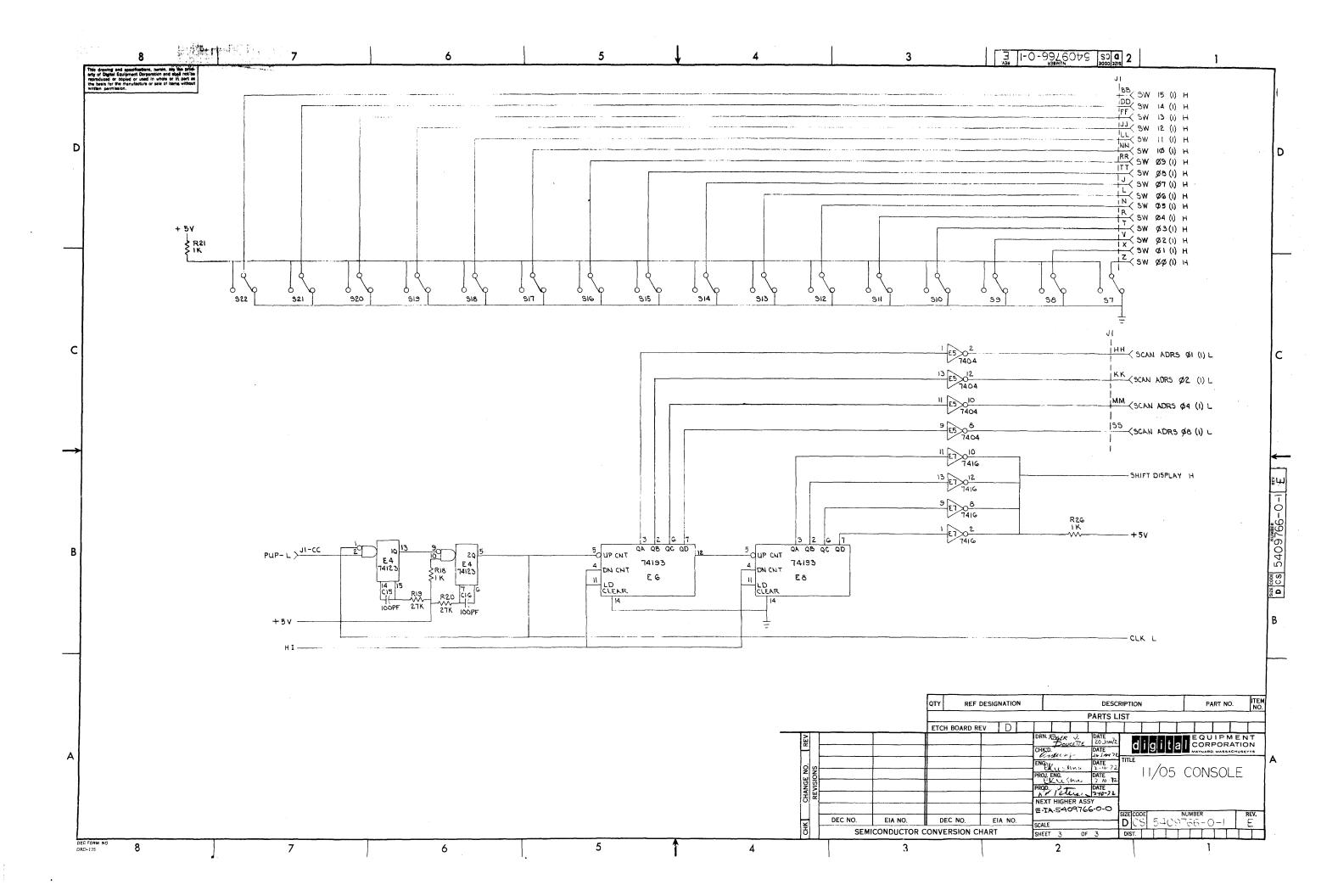
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS							QUANTITY/VARIATION												
	WATI	PARTS LIST																	
	EBY R. ROBICHAUD	CHECKED C. TESCHNER SECTION	7																
DAT ENG		DATE 5-1-72 1	4	m	l 5)	Fr.	[		ł										
DAT	G. SIVALIANI	PROD R. K. PETERSON ISSUED SECT. DATE 5-10-72 1	AT-	5	J.	F													
ITEM NO.		DESCRIPTION	KY 11:	KY11-JB	KY11-JC	KY11													
23	_E=IA=7409374=4=0	BEZEL CONSOLE (VT40)	<b>-</b>	×	<del>                                     </del>			<u> </u>											
24	A-PS-1210982-0-0	KEY LOCK SWITCH	1	1	1	X			<del>                                     </del>		$\neg \uparrow$								
25	E-1A-7409374-5-0	BEZEL CONSOLE (UC15)		1	<b>†</b>	-		<del> </del>			$\dashv$	-+	+						
26	C-PS-361 <b>12</b> 75-0-0	LOGO (PDP-1105) NOTE VARIATIONS			X	X				<del>                                     </del>		_							
27	D-IA-74(9431-1-0	PANEL CONTROL (1105)	計言	$\frac{1}{X}$	1	X		<del>                                     </del>				$\dashv$	$\dashv$						
28	9009210-1	ADHESIVE TRANSFER TAPE % WIPE	<b></b>	T				ļ ——			$\dashv$	+	_						
29	1211052	CONSOLE PROTECTIVE COVER		1	A/R 1	A/R 1						$\dashv$							
30	D-IA-7409431-3-0	PANEL CONTROL (1110)	$\frac{1}{x}$		X	X		<del> </del>			$\dashv$	-+	_						
31	D-IA-7409768-0-0	PANEL CONTROL (GT40)	$\frac{1}{x}$			X					-+	+							
32	C-PS-3611275-4-0	LOGO (DEC GRAPHIC)	$\frac{\lambda}{x}$	1		X					$\dashv$	-	+-						
33	C-PS-3611275→5-0	LOGO (UC15)	$\frac{\lambda}{X}$	X		1							+						
34	D-IA-7409431-4-0	PANEL CONTROL (UC15)	$\frac{1}{x}$	X		1					-+		-						
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ITL	E CONSOLE ASSY (PDP11/	O5)  ASSY NO. D-UA-KY11-J-Ø  A			K	N Y11-	UME -J-)				RE F	V. E.	0.0.40						
	FORM DEC 16 (325) 1031 N870	SHEET 2 OF 2 DIS		3	T	$\neg \tau$		Γ_	T	T	$\dagger$		$\overline{1}$						



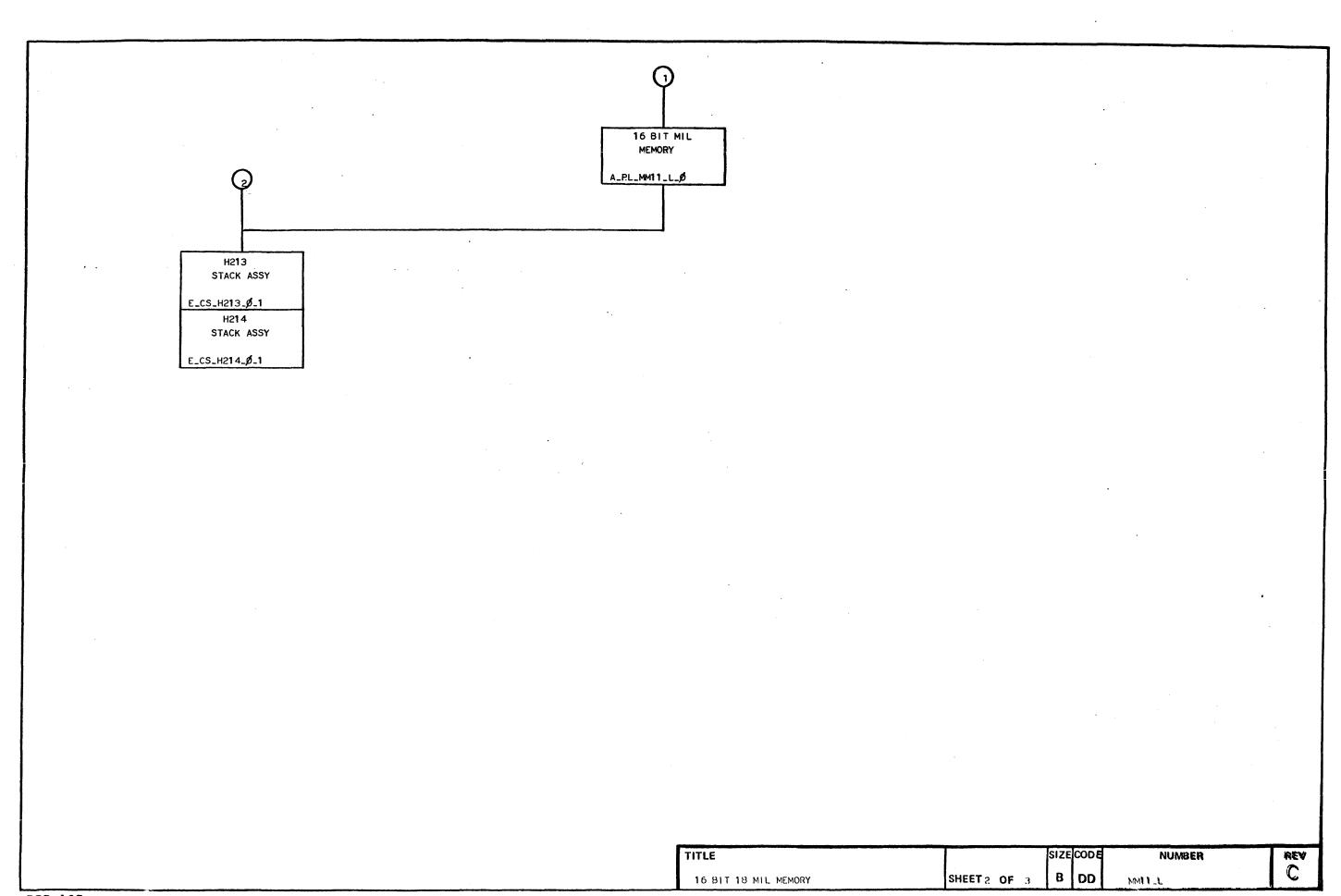






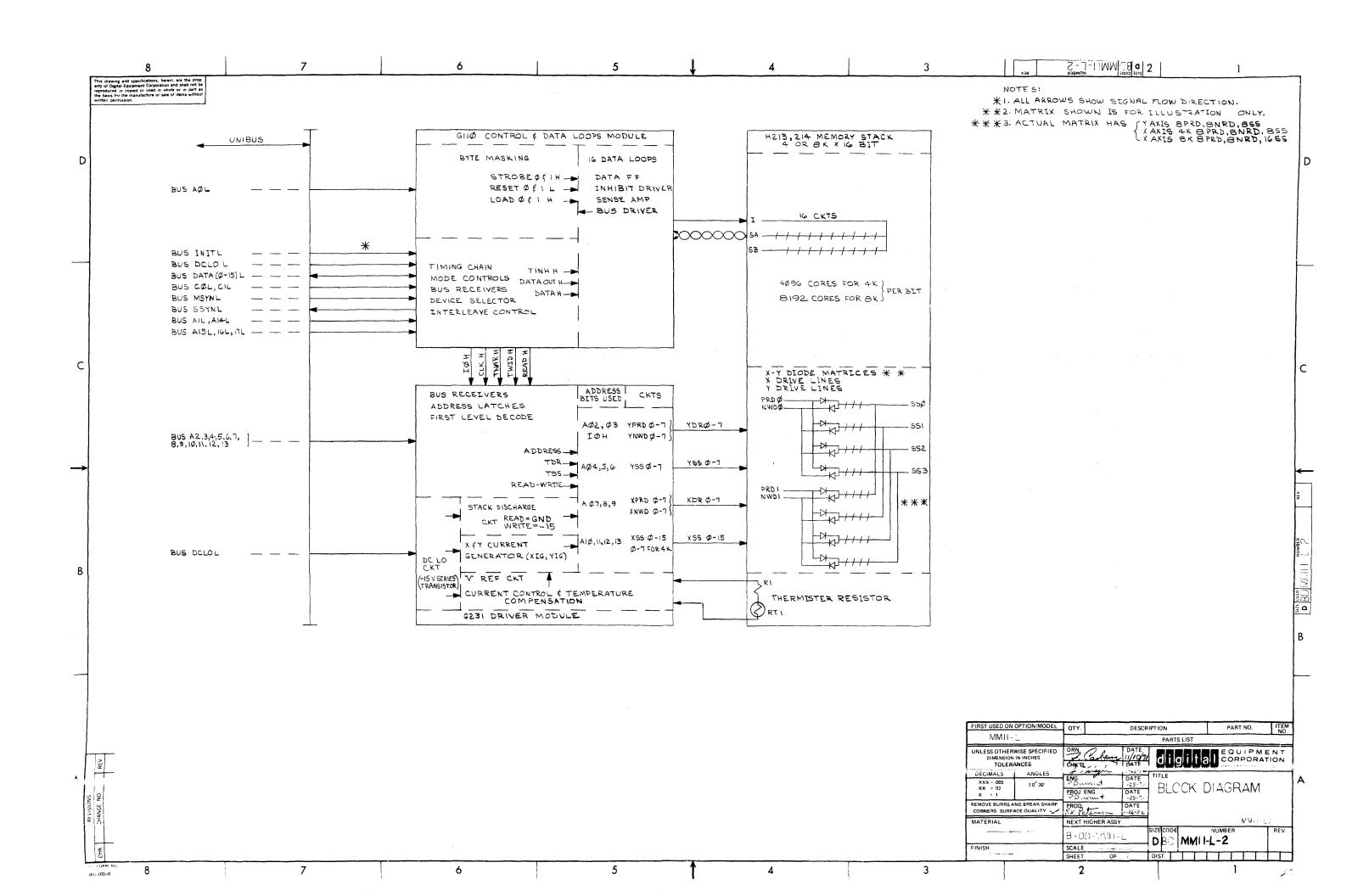


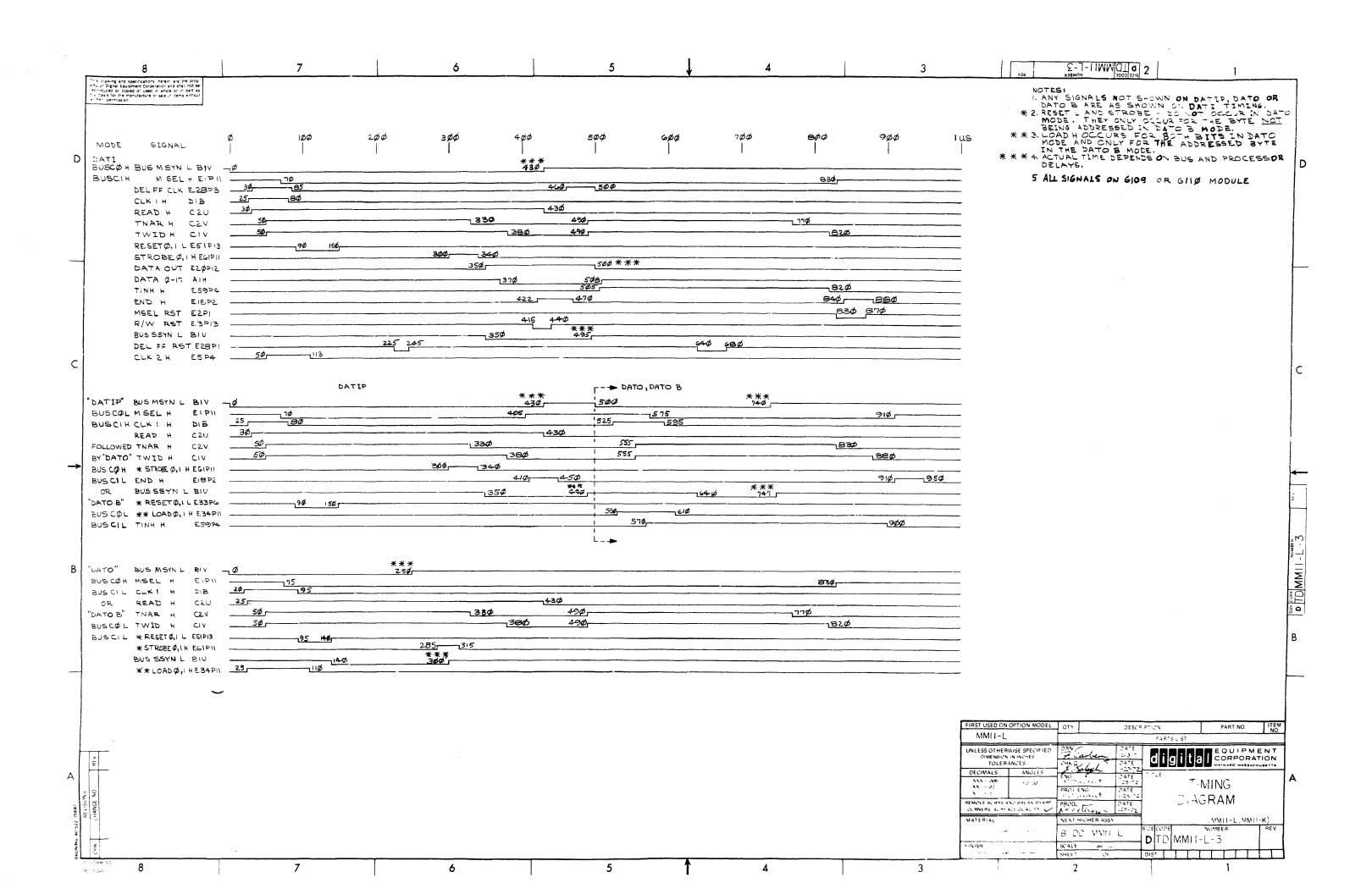
CUSTOMER PRINT SET INDEX  SEQUENCE  MODULE UTILIZATION BLOCK DIAGRAM TIMING DIAGRAM TIMING DIAGRAM **MEMORY DRIVERS  **CONTROL & DATA LOOPS  CUSTOMER PRINT SET INDEX  SEQUENCE  D_MU_MM11_L_1  MFG. PRINT SET  MFG. TEST PRO. FOR MMII/K,L,M,S & SP  A-S P-M MII-L-5		THIS IS PRINT S UNIT VARIATIONS				$\Box$
MODULE UTILIZATION  BLOCK DIAGRAM  TIMING DIAGRAM  MFG. PRINT SET  D_TD_MM11_L_3  MFG.TEST PRO. FOR MMI/K,L,M,S & SP  MFG.TEST PRO. FOR MMI/K,L,M,S & SP		LINIT VARIATIONS				
TIMING DIAGRAM  D_TD_MM11_L_3  MFG.TEST PRO. FOR MMI/K,L,M,S & SP  **MEMORY DRIVERS  D_TD_MM11_L_3  MFG.TEST PRO. FOR MMI/K,L,M,S & SP		ONIT VALIATIONS		RINT S	ET TYP	Ē
1-th	VARIATIO	N TITLE	MM11-L			
**CONTROL & DATA LOOPS	MM11_K MM11_L	4K 16 BIT 18 MIL MEMORY  8K 16 BIT 18 MIL MEMORY	X			
* SPECIAL REVISION PRINTS ARE AVAILABLE ON CETCH REV. MODULES.  CARE SHOULD BE TAKEN TO INSURE THAT PROPER PRINTS ARE ORDERED.						
CHG. NO. REV MMIIL-OCCI A MMIIL-OCCI B MISC-OCIO7 C	MM11_K	PRODUCE DATE 1-25-72  PRODUCE DATE 1-25-72  PRODUCE DATE 1-26-72 SIZE CODE	NUMBE	R		REV
9/72   1-72   1-73		SHEET 1 OF 3 DIST	11_1.			

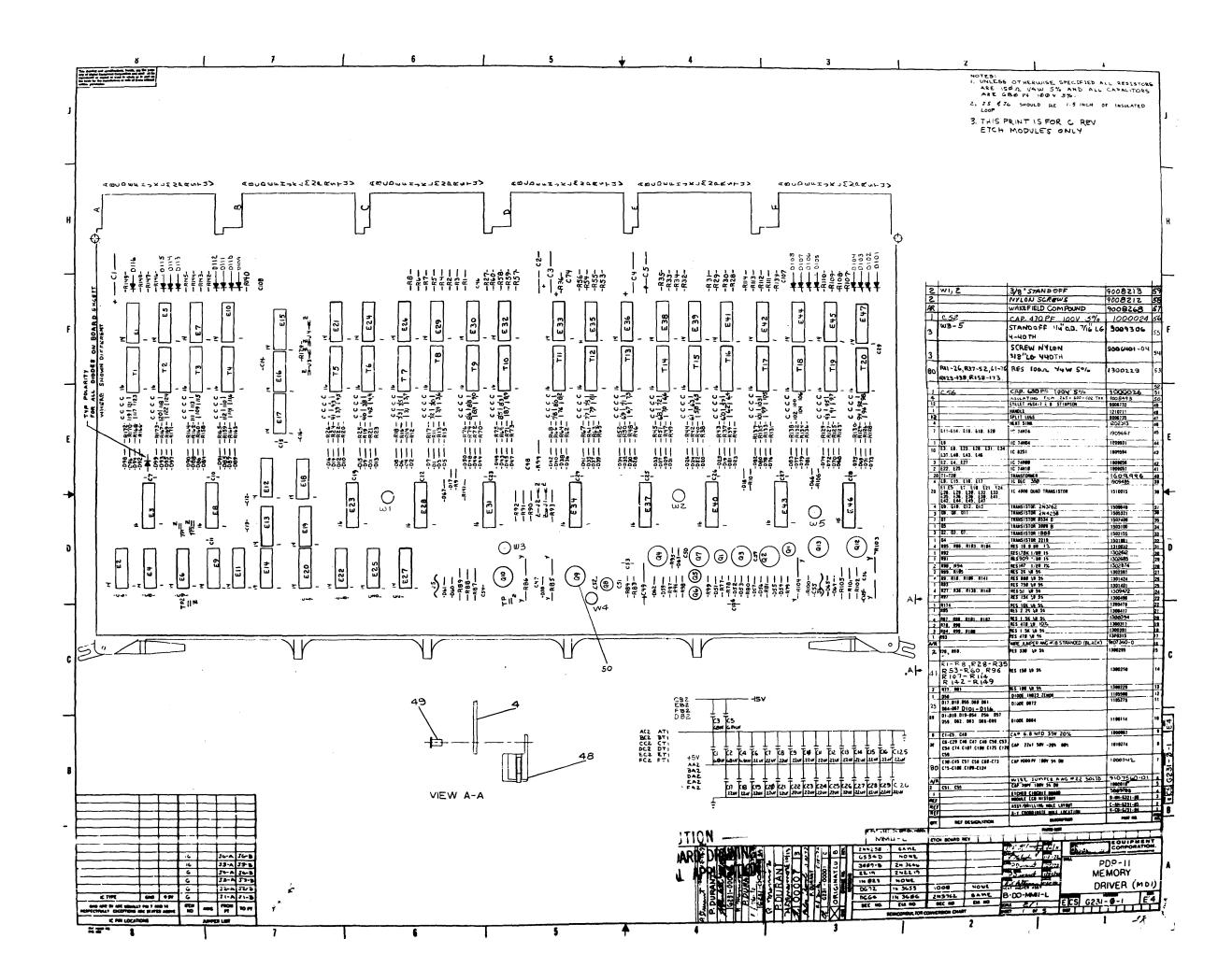


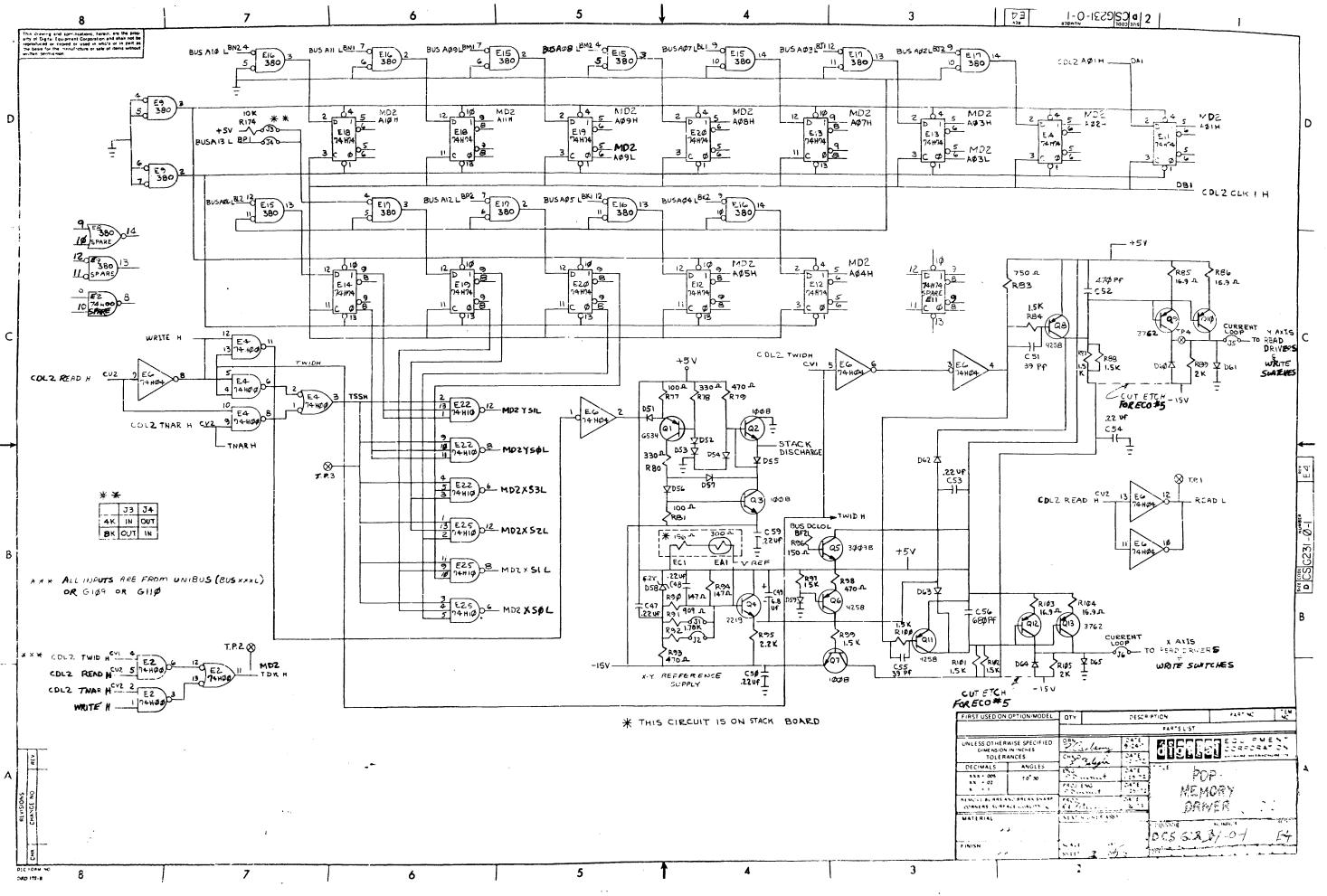
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MM11_L				MFG S	FIND NO.	DRAWING NO.		NO OF SHT		OPTION NO.	MM11_L				2 2	FIND NO.	DRAWING NO. RE	EVS	NO OF		OPTION NO.
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<b>}</b>		+-+		+-			+	<del> </del>				+	-	++	+	$\dashv$		+			
X			工			D_BD_MM11_L_2	*	1	BLOCK DIAGRAM						工			士			
×	+	++		+		D_TD_MM11_L_3	*	1	TIMENG DIAGRAM	<del>-</del>		+		++	+	+		+			
	$\perp$	11				J									土		A_PS_3010654_0_0	+		PURCHASE SPEC	<del>                                     </del>
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BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BBSYL   P GRO   BSYL   P GRO   BBSYL   P GRO   BSYL    BSYL   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P GRO   P	- W1 day .	DONOP JUERANCES		BR7L → GND  NPRL ∞ GND	BR7L ☐ GND  NPRL ☐ GND	BR7L → GRD NPRL ∽ GRD	<b>1</b> )	
131   1   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   112   114   114   112   114   114   112   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114		E SPECIFE TO 30		BBSYL GND	BBSYL GND	BBSYL TO GRD	Þ	in the second
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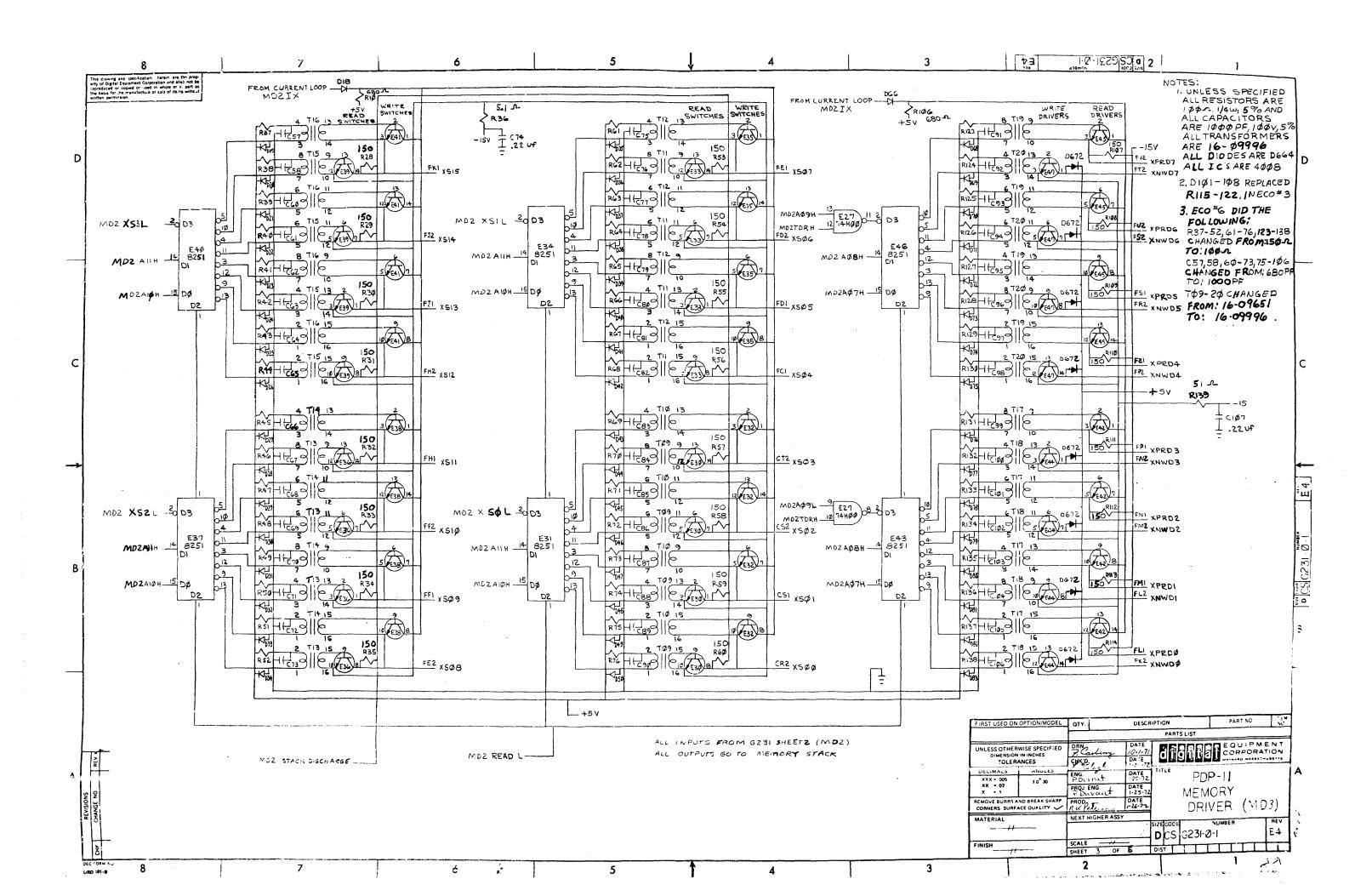


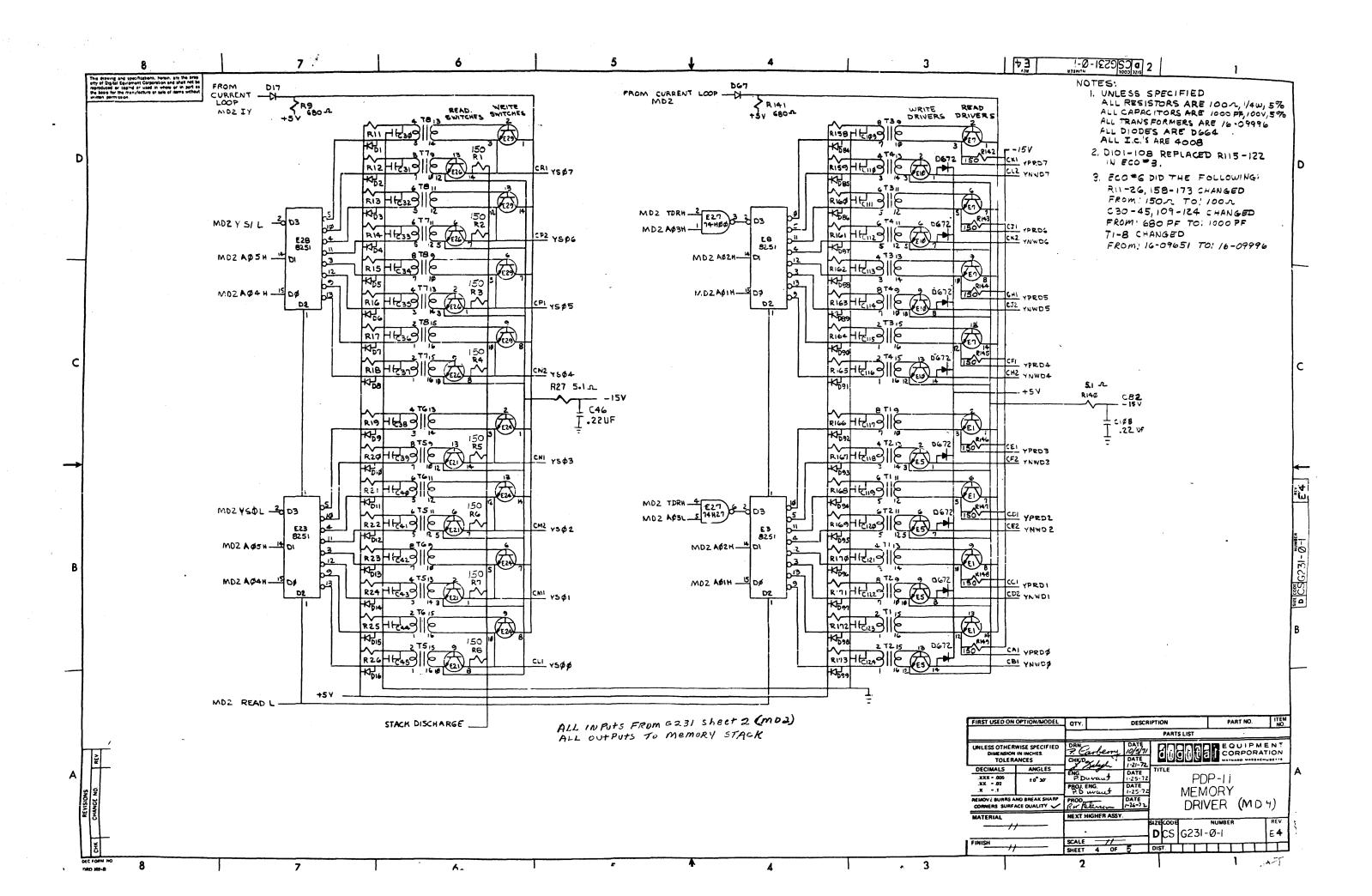




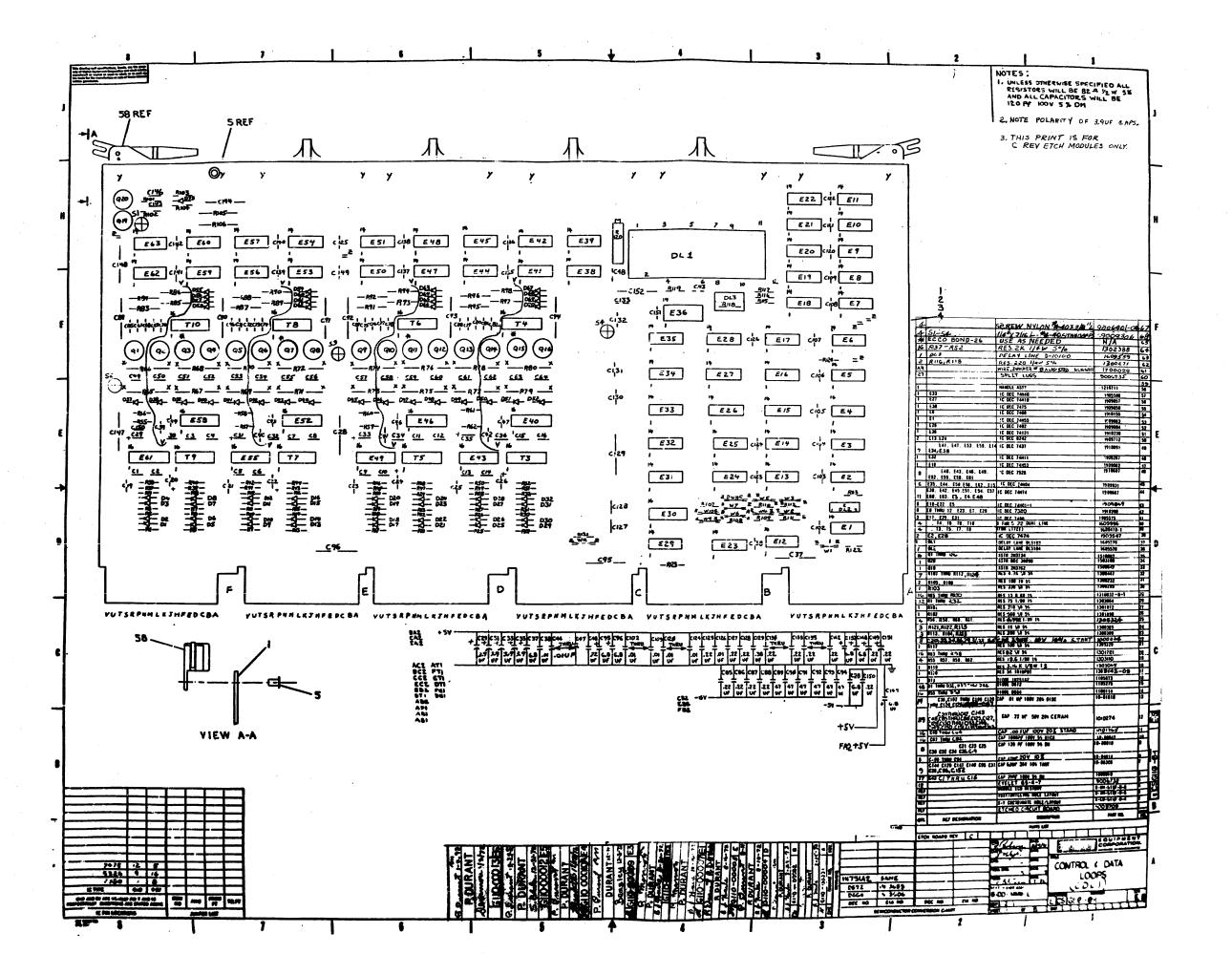


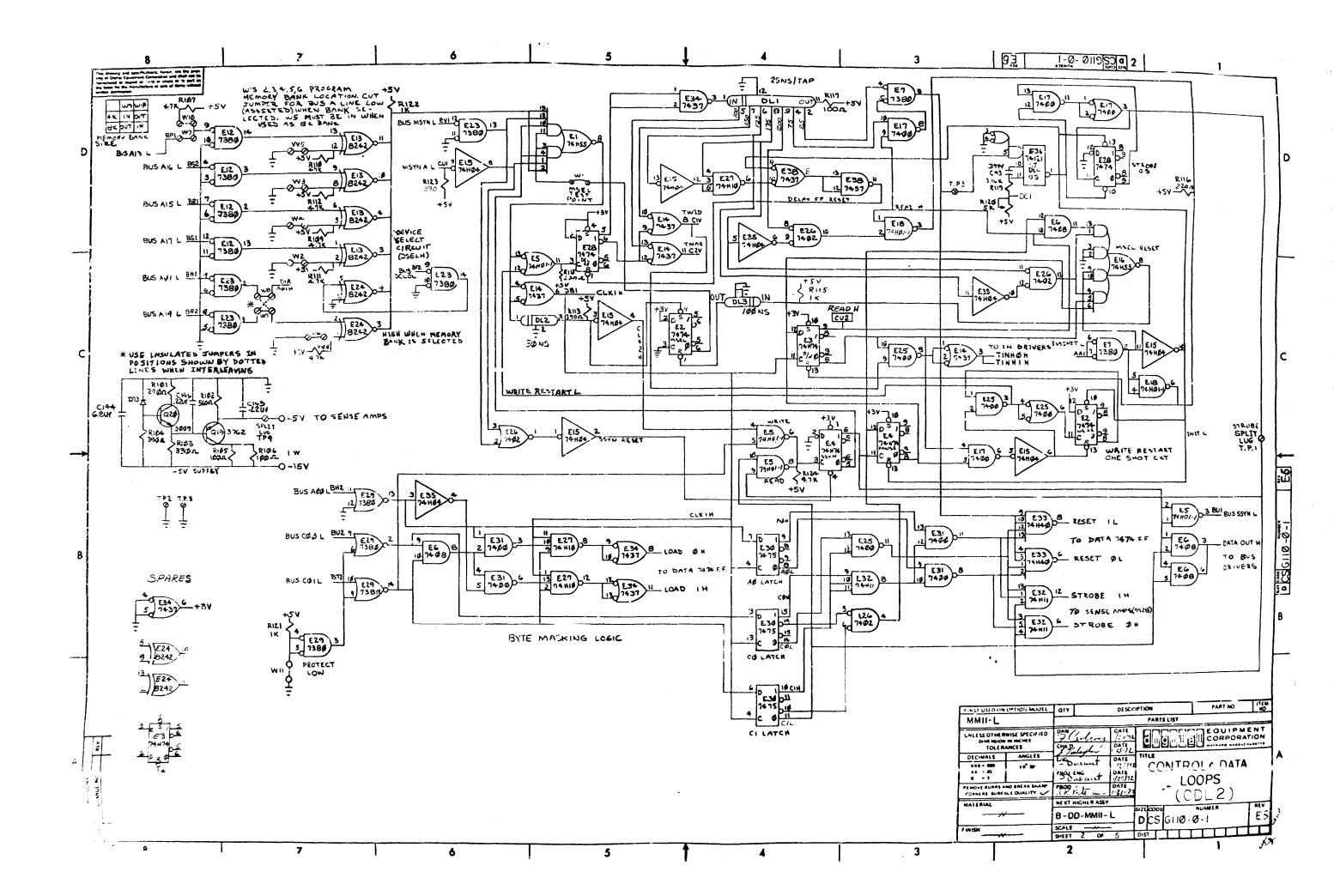
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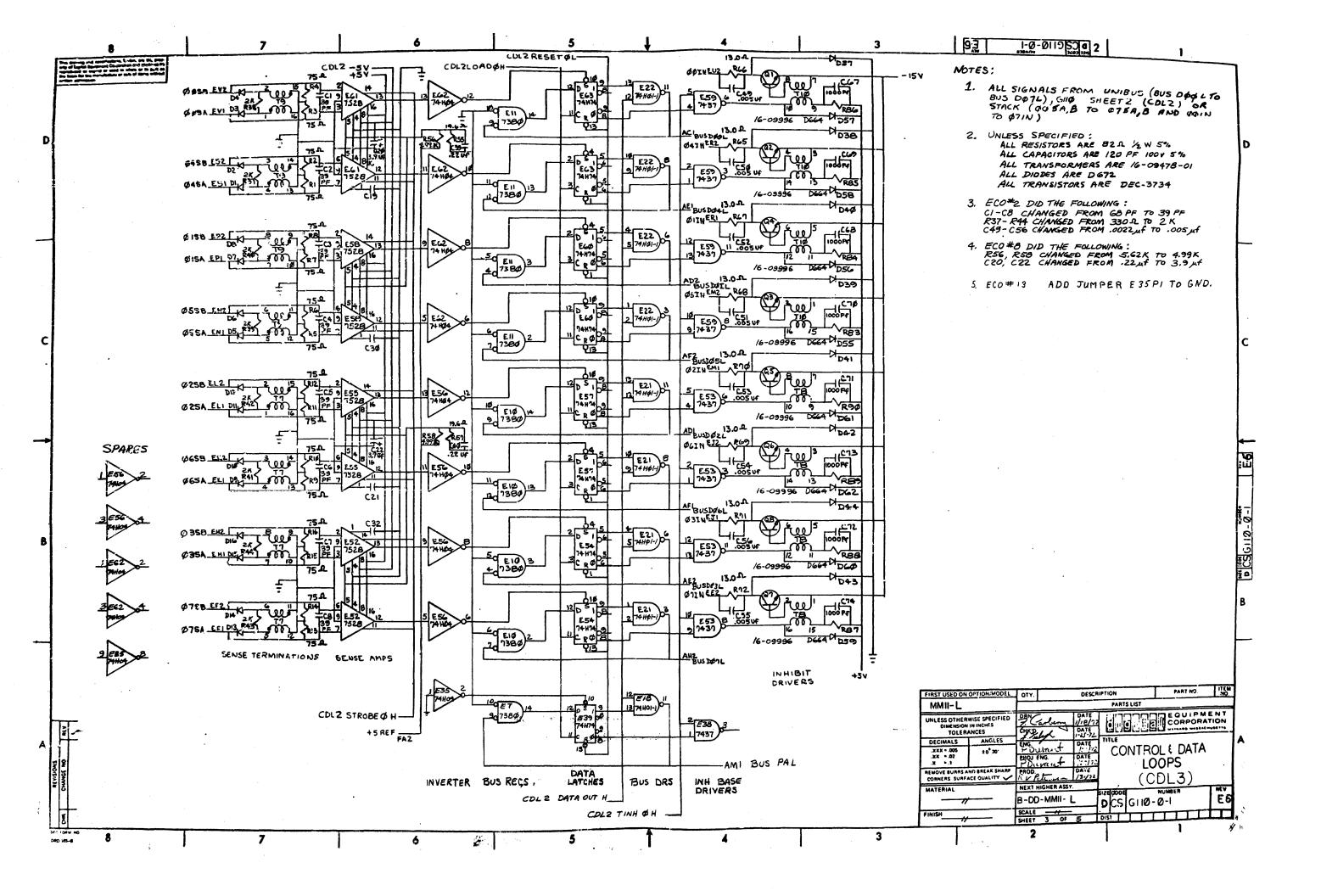


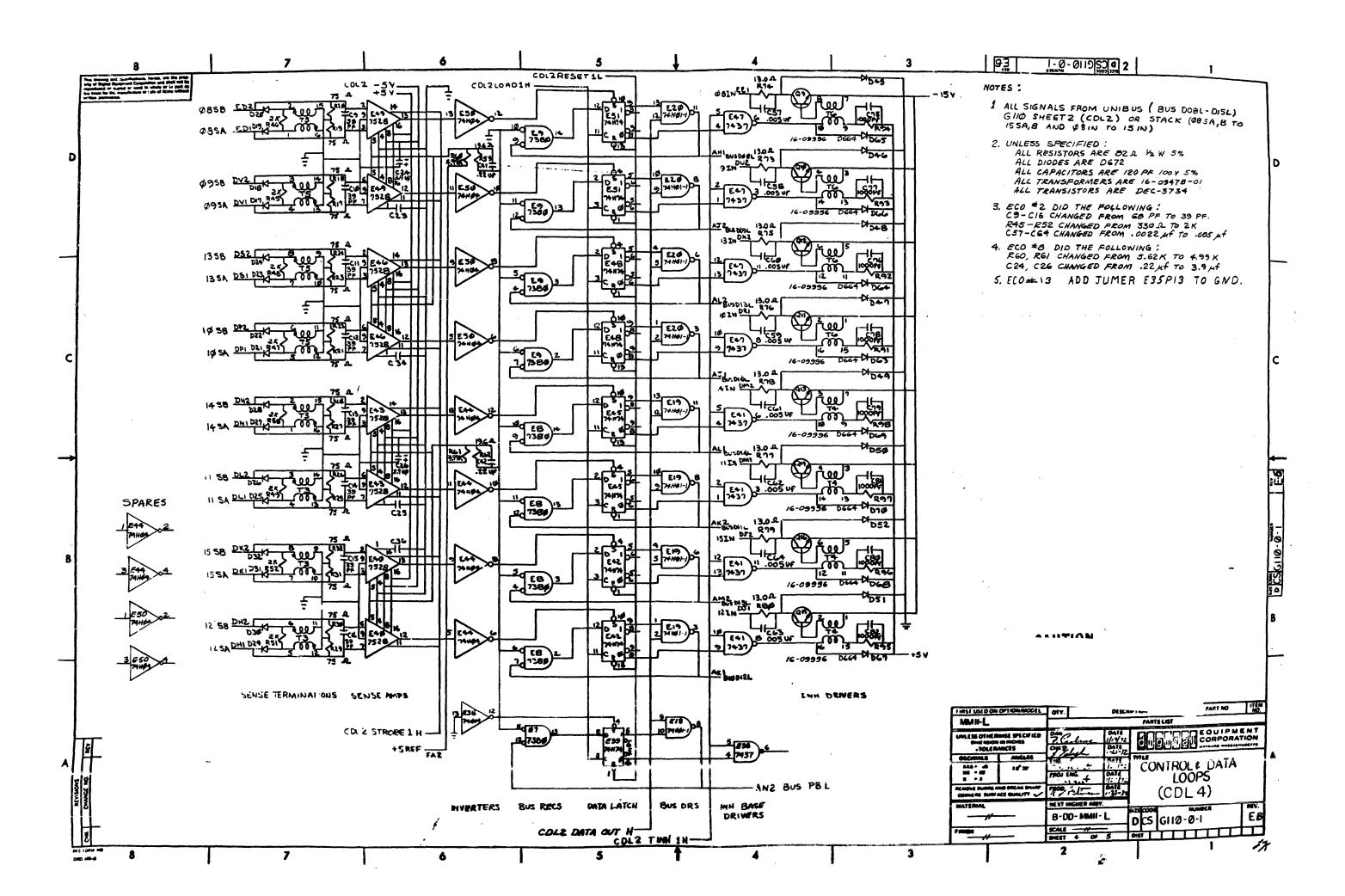


7 1-0-1229SJd 2 THIS DRAWING AND SPECIFICATIONS, HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPID DO RUSE IN WHOLE OR IN PART AS THE BRASSEOS THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PRIMISSION COPYRIGHT OF DIGITAL EQUIPMENT EQUIPMENT COPPARISON. NOTES: ECO MODULE REFERENCE I. THIS PRINT IS FOR "C" REV ETCH MODULES ONLY. 2. THIS CHART IS DESIGNED TO ALLOW THIS G231 CIRCUIT SCHEMATIC TO BE USED WITH ALL PREVIOUS REVISION MODULES D 3. TABLE IS USED AS FOLLOWS: A. LOCATE REVISION LETTER STAMPED ON THE HANDLE B. FOLLOW THE MODULE STAMPED REVISION SUMMARY OF ECO (NOTE: MODULE WAS PRINT CHANGE ECO REQUIREMENTS COLUMN TO FIND APPROPRIATE REV. RELEASED AT CS. REV B) C. NOTICE SYMBOLS TO RIGHT OF REVISION LETTER, THESE SYMBOLS WILL INDICATE ECO REQUIREMENTS LOCATIONS 3 4 5 6 789 STAND-OFFS GLUED I ADD(2) STANDOFFS C ON WITH ECCO BOND FOR THAT MODULE. 4. SYMBOLS: 2 DID NOT EFFECT C'REV ETCH MODULES - REQUIRED 3 REMOVE 16-150 A RESISTORS, ADD 16-D672 DIODES (DIØ1-116) SEE SHEETS 364 AREA 1.D Δ . ONE OR THE OTHER IS REQUIRED ECI * NOT REQUIRED * * * 4 DID NOT EFFECT C' REV ETCH MODULES SEE SHEET Z AREA 2-B 0 * 0 * 0 5 FIXED DCLO 3-ETCH CUTS, 3 JUMPERS EI 1 IF ECO & S NOT INSTALLED REF TABLE BELOW REF DESIGNATION DESCRIPTION PART NO. THEM SEE SHEET 3 & 4 TRANSFORMER 1909651 40 E2 2 0 * 0 * 0 BO R1-26, 37-52,61-76, 123-138, 158-173 150.7 RES. 130025053 80 C30-45, 57, 60-73,58, 75-106, 109-124 680PF CAP. 1000026 7 AREA I-C DRILL BOARDS IN BOARD FABRICATION TO INSTALL NEW STANDOFFS WITH SCREWS GENERATE CORRECT PRINTS HANDLE C.S. PRINT STAMPED REQUIRED SEE SHEET 1 C I 3 3 AREA 2-F ΕZ SEE SHEET Z CHANGE VALUE OF C52 FROM: 680 PF TO: 470PF |3A|3A|△|*|□|<del>*</del>|□|*|△|□| AREA Z-C GENERATE APRINT THAT SHOWS ECO STATUS AND UPDATE PRINTS TO DEC STANDARDS PRINT CHANGE Δ ONLY PART NO digital CORPORATION UNLESS OTHERA SECRET TOLERANCES DECIMALS tar - 005 PDP-11 • • C2 MEMORY BEWOVE B. HOS AND BUEAR SHARE CORNERS SURFACE OF ALCOHOL DRIVER (MD5) 54 61 m , m 1 6 425 f DCS G231-0-1 SALE NONE /INISH — 2









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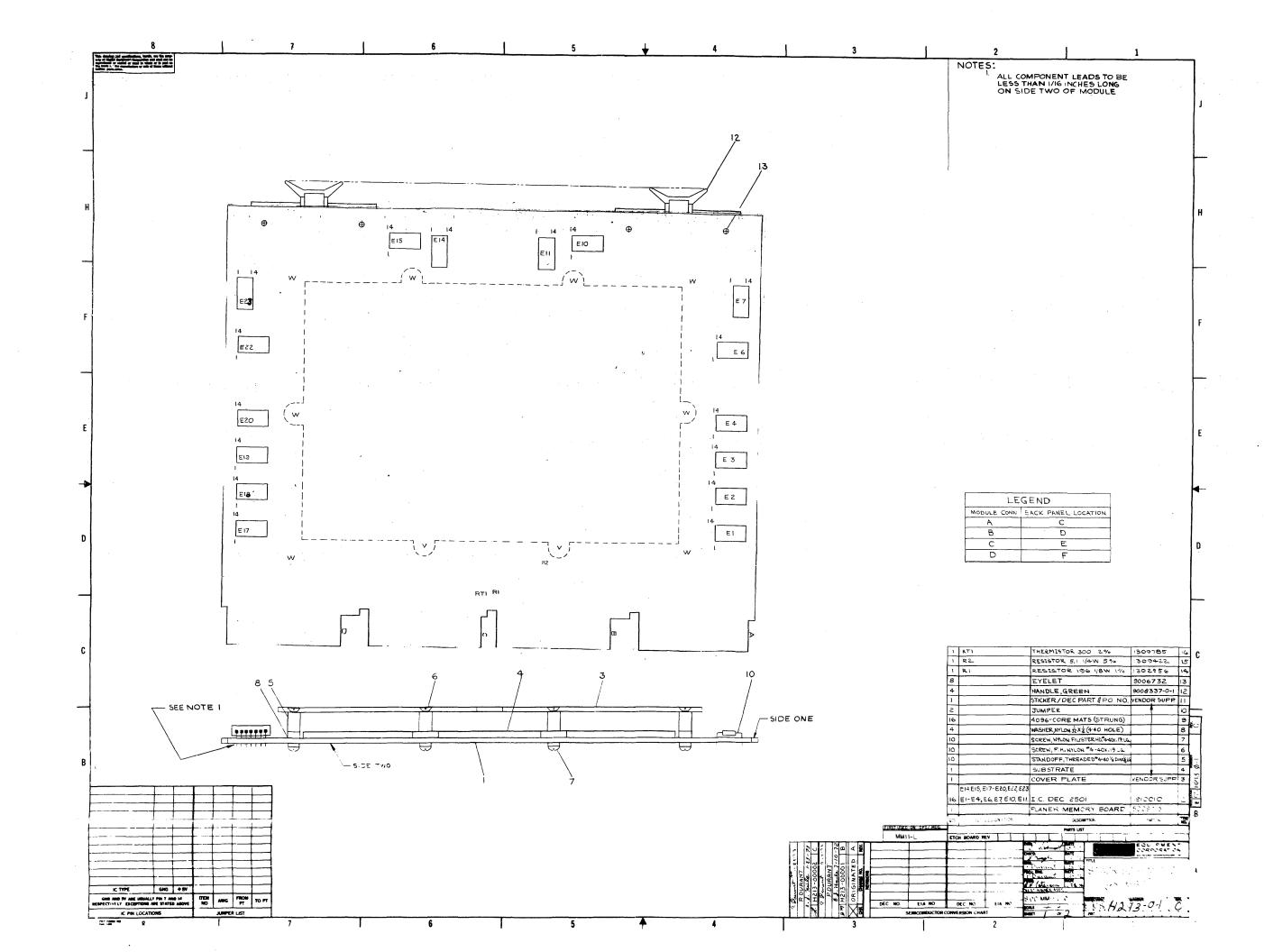
COPYRIGHT ( O GITAL EQUIPMENT CORPORATION') NOTES: i. THIS PRINT IS FOR C'REV. ETCH MODULES ONLY. Z. THIS CHART IS DESIGNED TO ALLOW THIS GIO CIRCUIT SCHEMATIC TO BE USED E.C.O. MODULE REFERENCE WITH ALL PREVIOUS REVISION MODULES D 3. CHART IS USED AS FOLLOWS: E.C.O. 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LOCATE REVISION LETTER STAMPED SUMMARY OF E.C.O 6 8 9 9A 10 10A 11 12 13 LOCATION ONHANDLE CHANGE RIIG, RIIB FROM IK TO 220 A. CUT ETCH FROM E2-P3 TO E5-P4 & TO E15-P4. ADD JUMPERS FROM E2-P3 TO GND, FROM E5-P4 TO E15-P4, CUT ETCH FROM E2-P4 TO E2-PZ, ADD JUMPER FROM .B. FOLLOW THE MODULE STAMPED COLUMN TO FIND APPROPRIATE REVISION ... NOTICE SYMBOLS TO RIGHT OF REVISION Α LETTER, THESE SYMBOLS WILL EZ-P4 TO DLZ-F3, CUT ETCH FROM 1 26-F8 TO DLI-PIG ADD JUMPER FROM EZG-PA TO DLI-P9. INDICATE ECO REQUIREMENTS CHANGE SENSE TERM, CAPS FROM 68 PF TO 39 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 19 PF TO 1 EOR THAT MODULE. SHT 3 44 AREA 2-C 4. SYMBOLS: В. В : REQUIRED SHT 2 /1054 4-C A . ONE OR THE OTHER IS REQUIRED CHANGE TERM FES RIIS FOR DL3 FROM 390A TO 3K SHI'Z AREA 4C O = ONE OR THE OTHER IS REQUIRED 3 DIU NOT EFFECT C'KEV ETCH MODILES . BUT (CI52 MUST BE CHANGED) 34 DID N'T EFFE T'C"REV ETCH MODULES * * * * * NOT REQUIRED DI 3 NOT TERMINATED PROPERLY CHANGE RIS FROM 3KTO IK, CUT ETCH FROM DL3 OUT TO EIG PE, CUT SHEETZ AREA 4-C ETCH FROM DLB IN TO EZ-PI, ADD JUMPER FROM D Ş 4 DES IN TO EIG PR ADD JUMPER FROM DES OUT TO ALUE DOWN DLZ WITH ECCO BONE SHT I AREA 3-D .

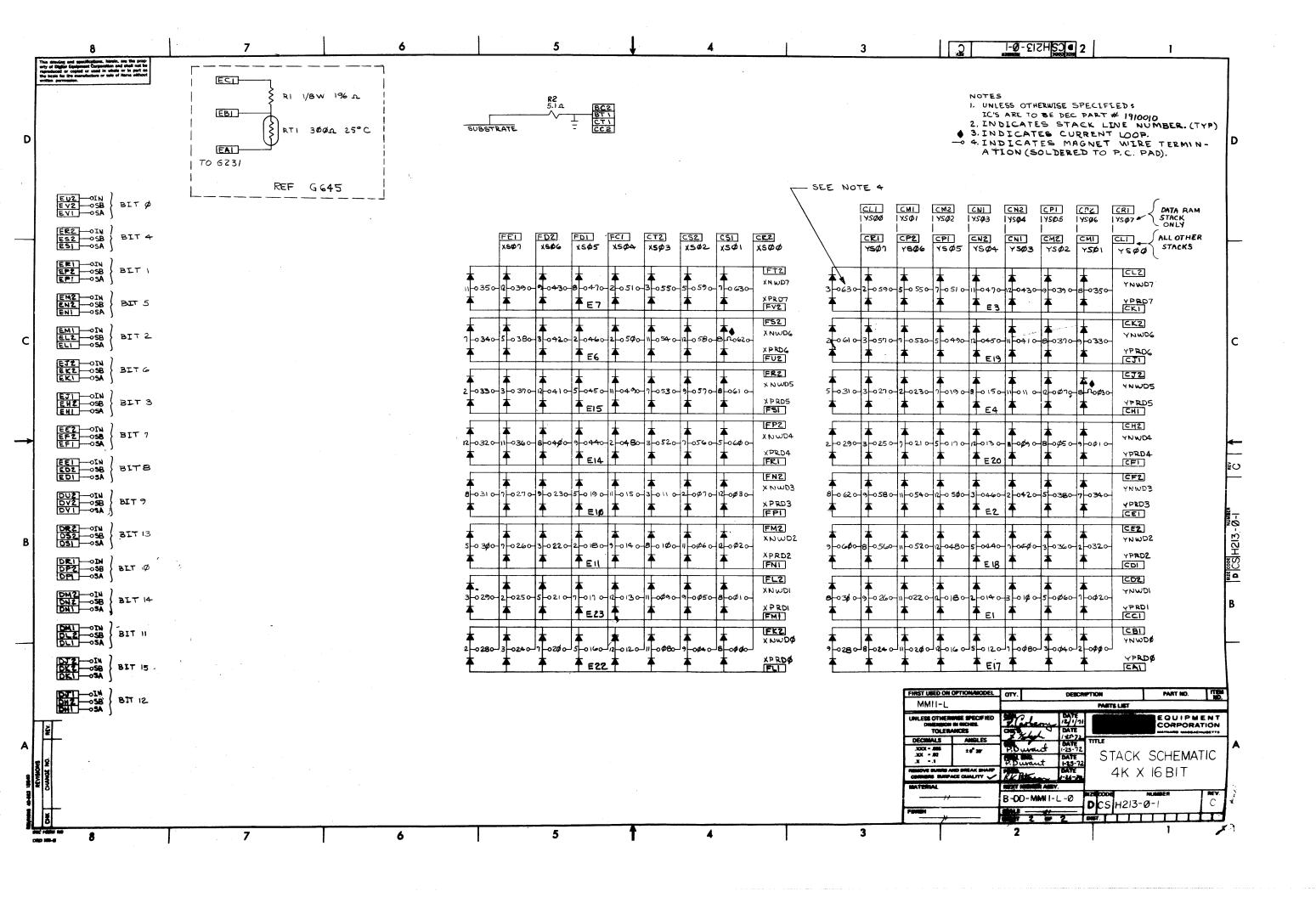
SHEVERSE CIBZ SO THAT + SIDE OF CAPACITOR GLESTO+5V SWFI AREA 4-E INSTALL 4-1/4"CD x 3/8 LG STAND-OF AS E E O O * * O O G DID NOT EFFECT C REV ETCH MODULES 7 DRILL BLANK BOARD, AND INSTALL (4) STANDOFFS & SCHOOL S.IT I AREA 7-P CHANGE R36,58, 50,61 FROM 5.62K TO 4.99K SHT344 AREA Z-C SHT1 AREA 5-C SHT3 3-4 AREA 2-C **0** * * * CHANGE C44-47 FROM . 22UF TO 3.9UF-SHT I AREA 3-C 9 INSTALL GND JUMPERS ON SIDE I, CHANGE PART NO. OF *18 WIRE FROM 9107360-00 TO 1700029 0 0 * * SHEET 1 €3 9A RESTAMP HAIDLE E-3, CHANGU FRIET FROM HT 38-3 E 3 10 REMOVE EZB.CUTETCH FROM EZB-PI3TO EZB-PZ ADD EZB AND JUMPER EZB-PI3TO EIS-PIO 0 0 * * * 0 0 * * 0 E4 IOA RESTAMIP HANGLE E 4, CHANGE PRINT REV FROM J TO E4 ם ס * 0 0 * * 0 0 II CANCELED 12 PRINT CHANGE ONLY 25 25 0 0 * * 0 0 * * 0 0 * * 0 0 - 0 13 ADD 2 JUMPERSSOTHAT PAL AND PBL 16 ARE HIGH ON THE BUS FIRST USED ON OPTION/MODEL OTY. DESCRIPTION PART NO. MMH-L PARTS LIST UNLESS OTHERWISE SPECIFIED digital CORPORATION TOLERANCES DECIMALS | ANGLES DATE .xxx = .006 .xx = .02 DATE CONTROL & DATA DATE LOOPS REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y (CDLS) B-DD-MMII-L |D|CS|G|10-0-0 **E**6 SCALE NONE
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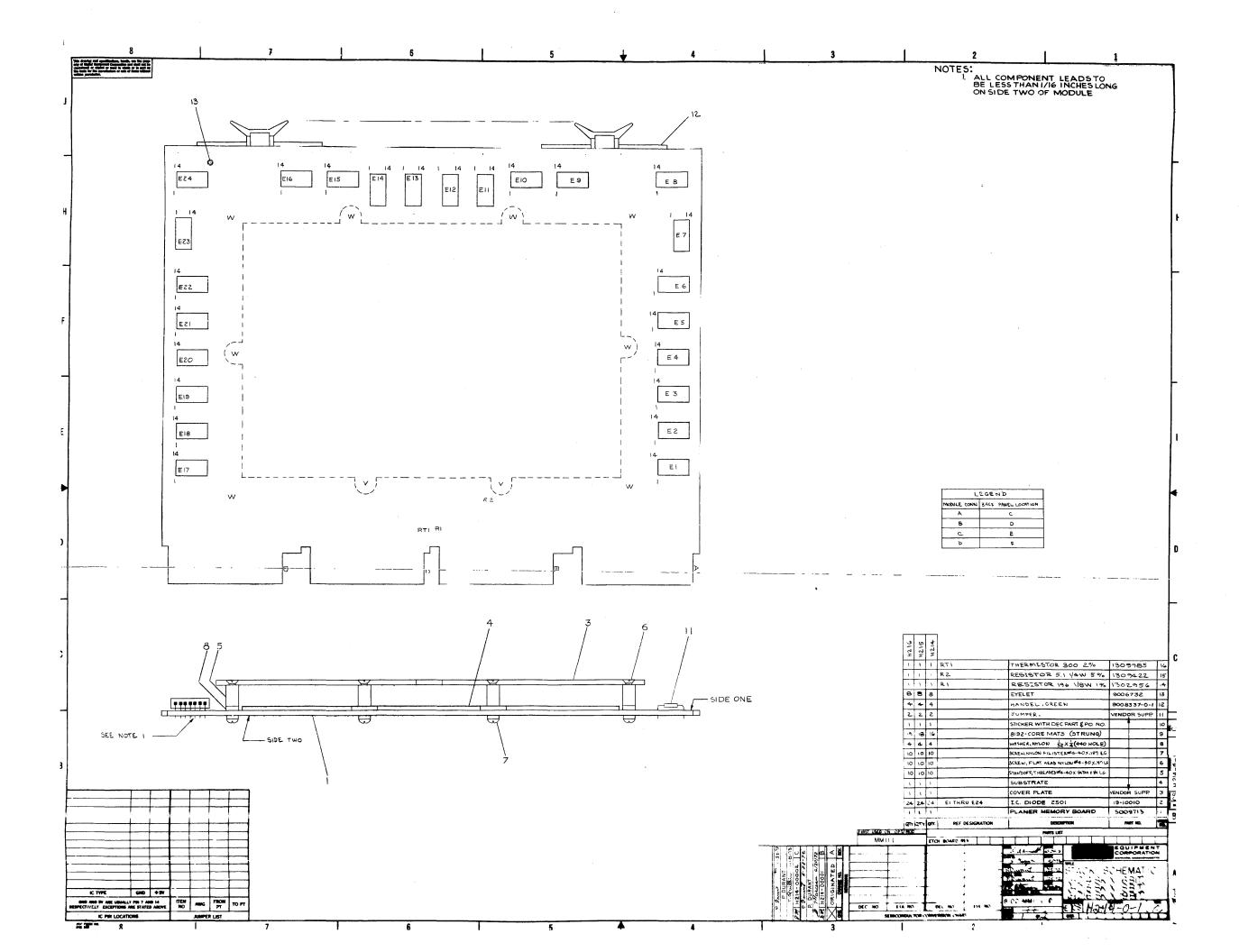
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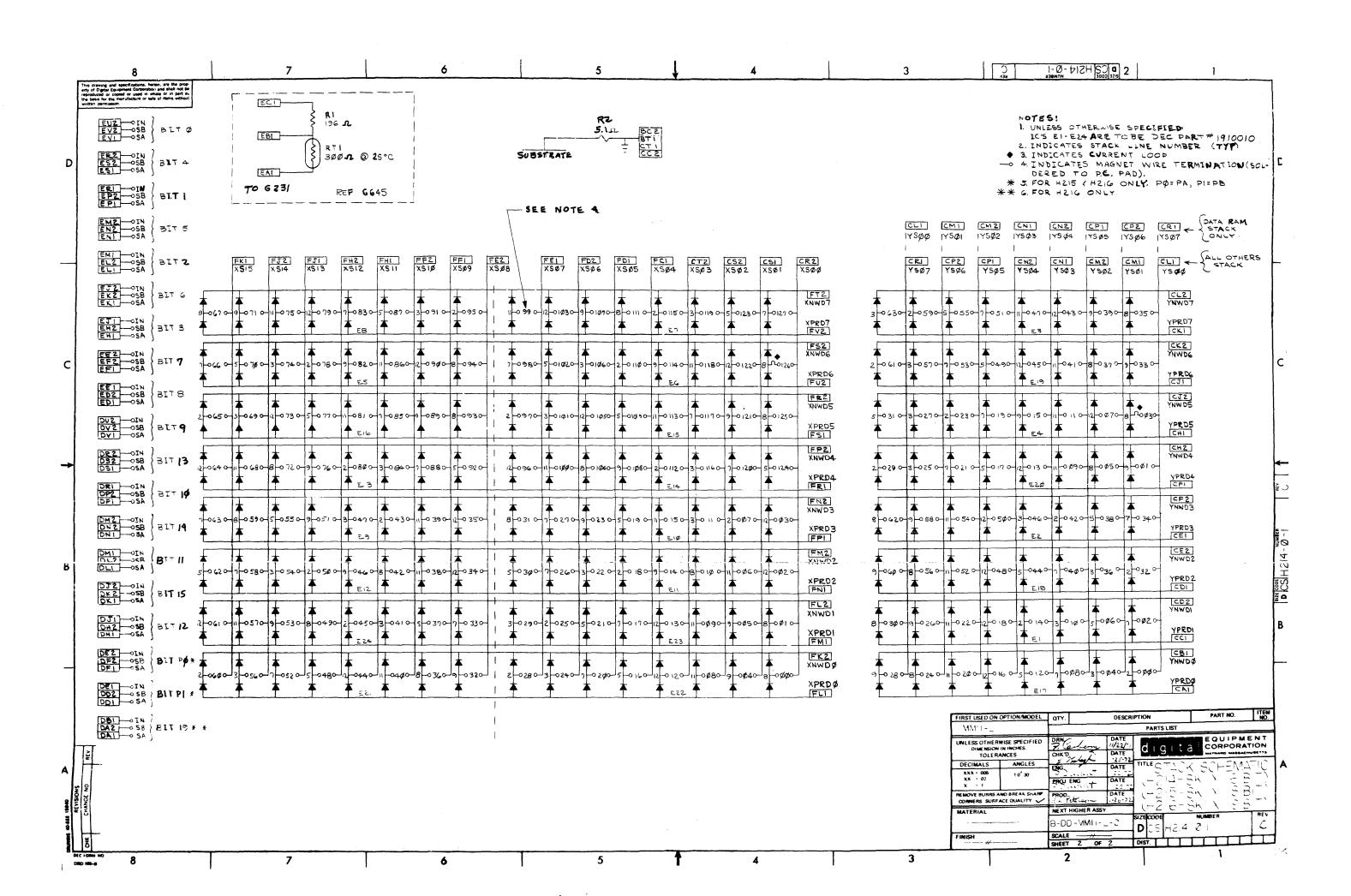
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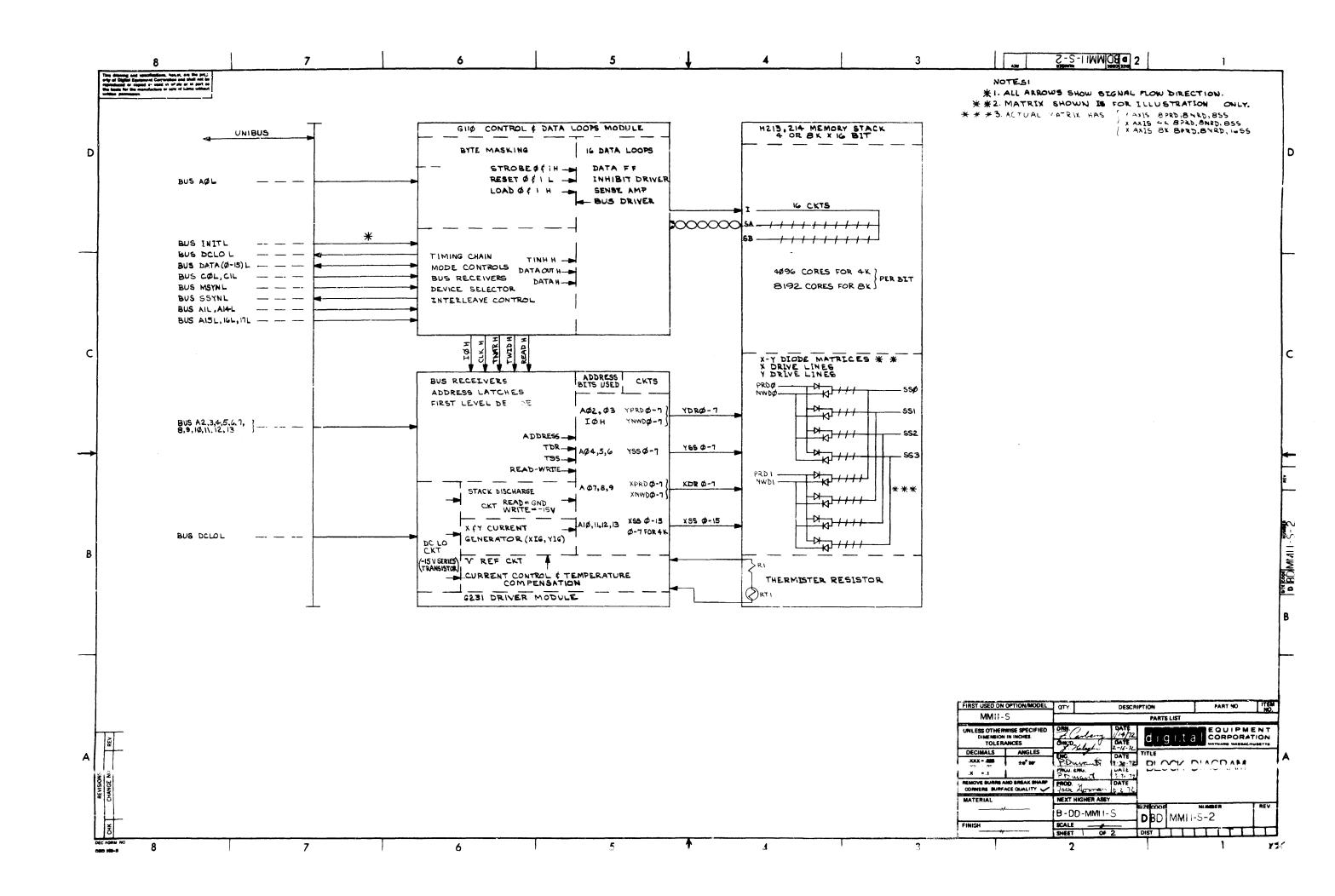
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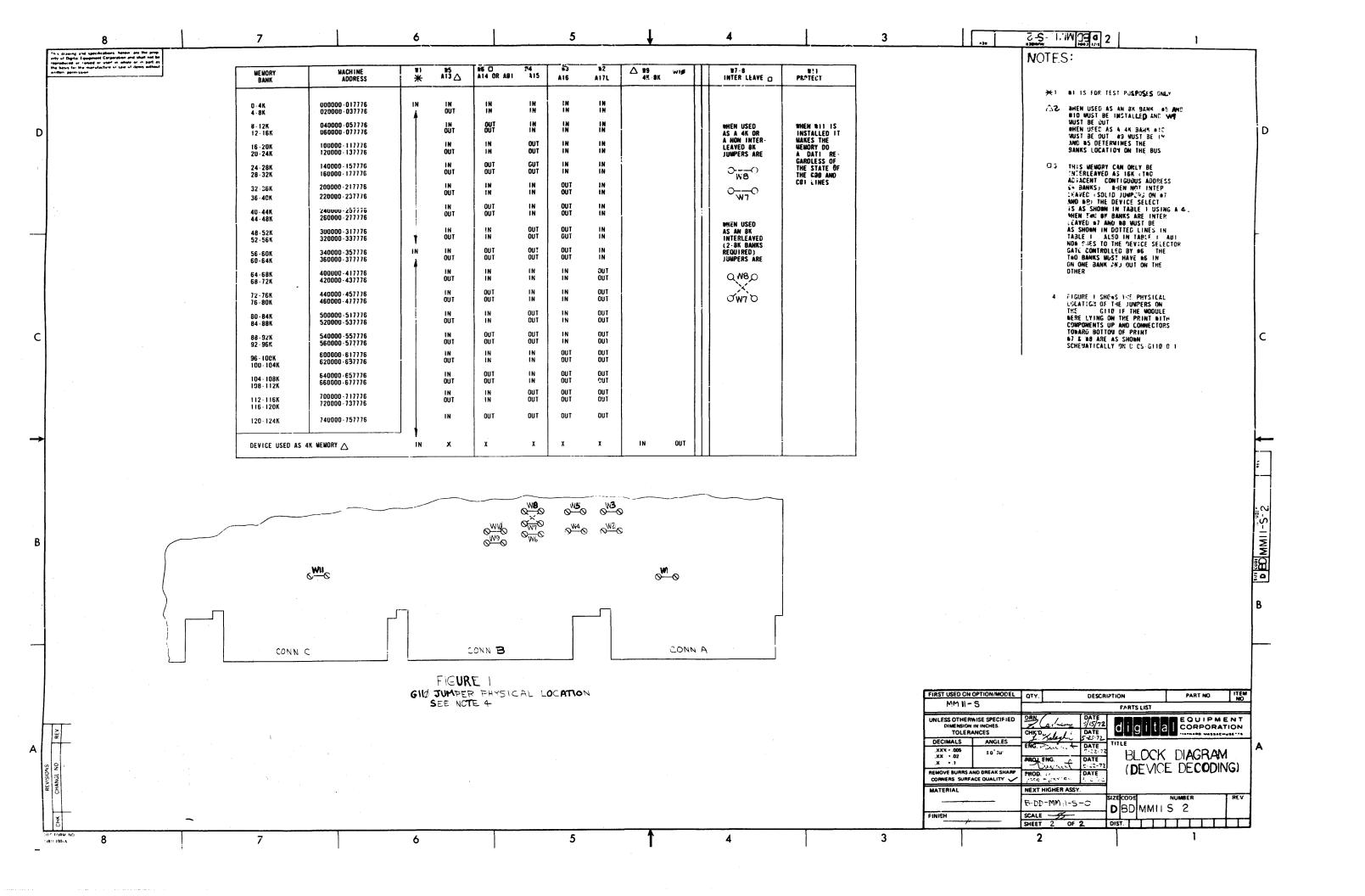




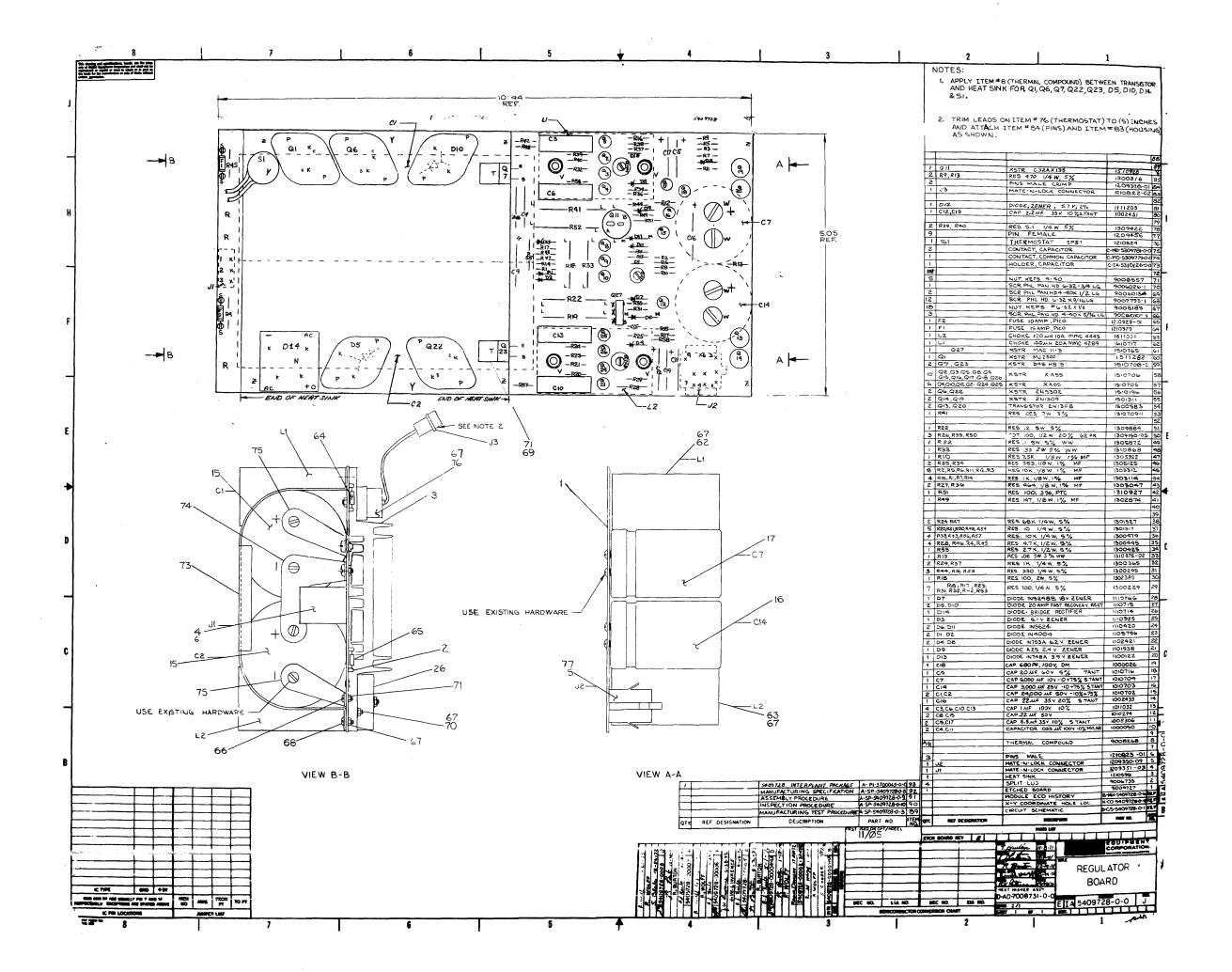


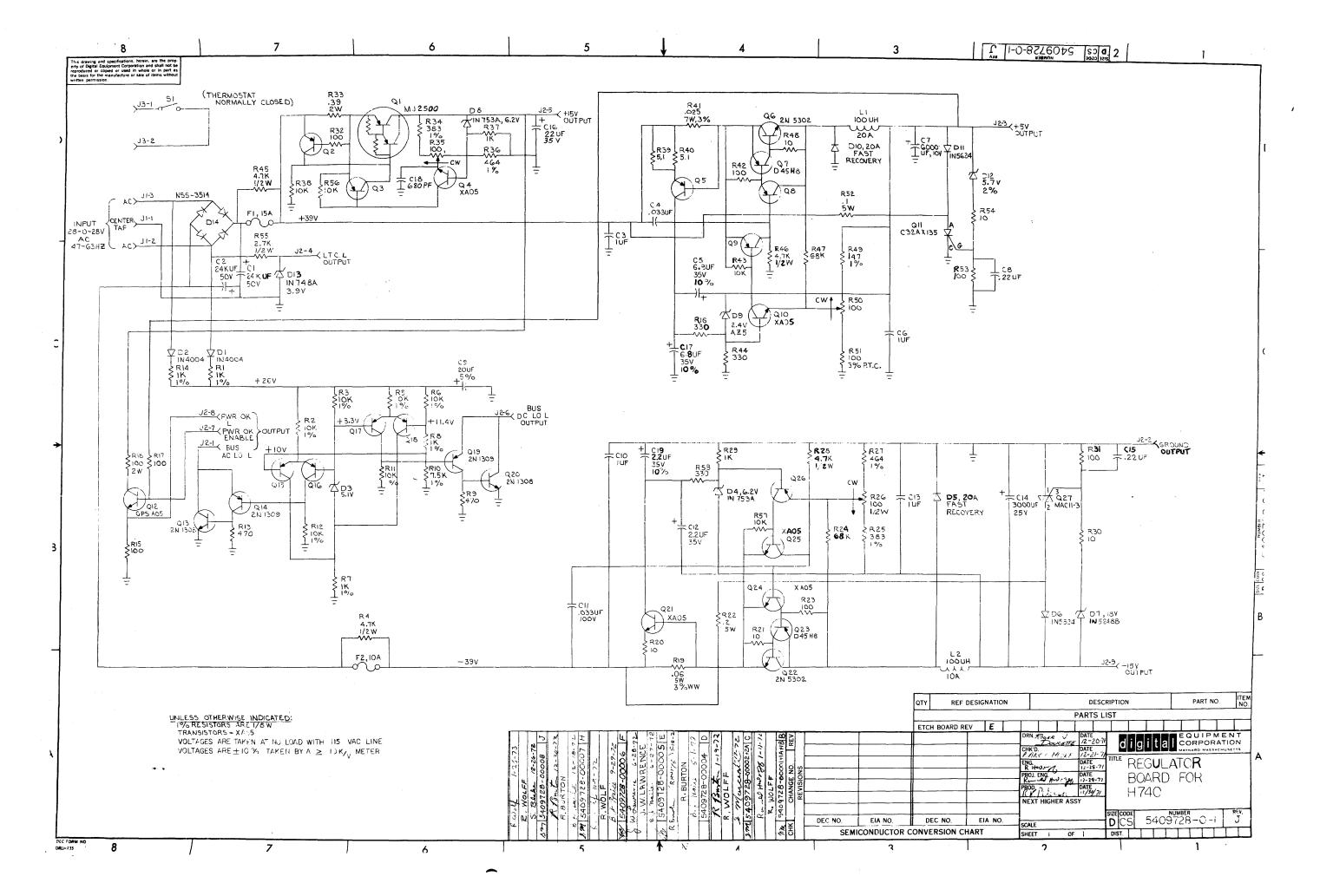




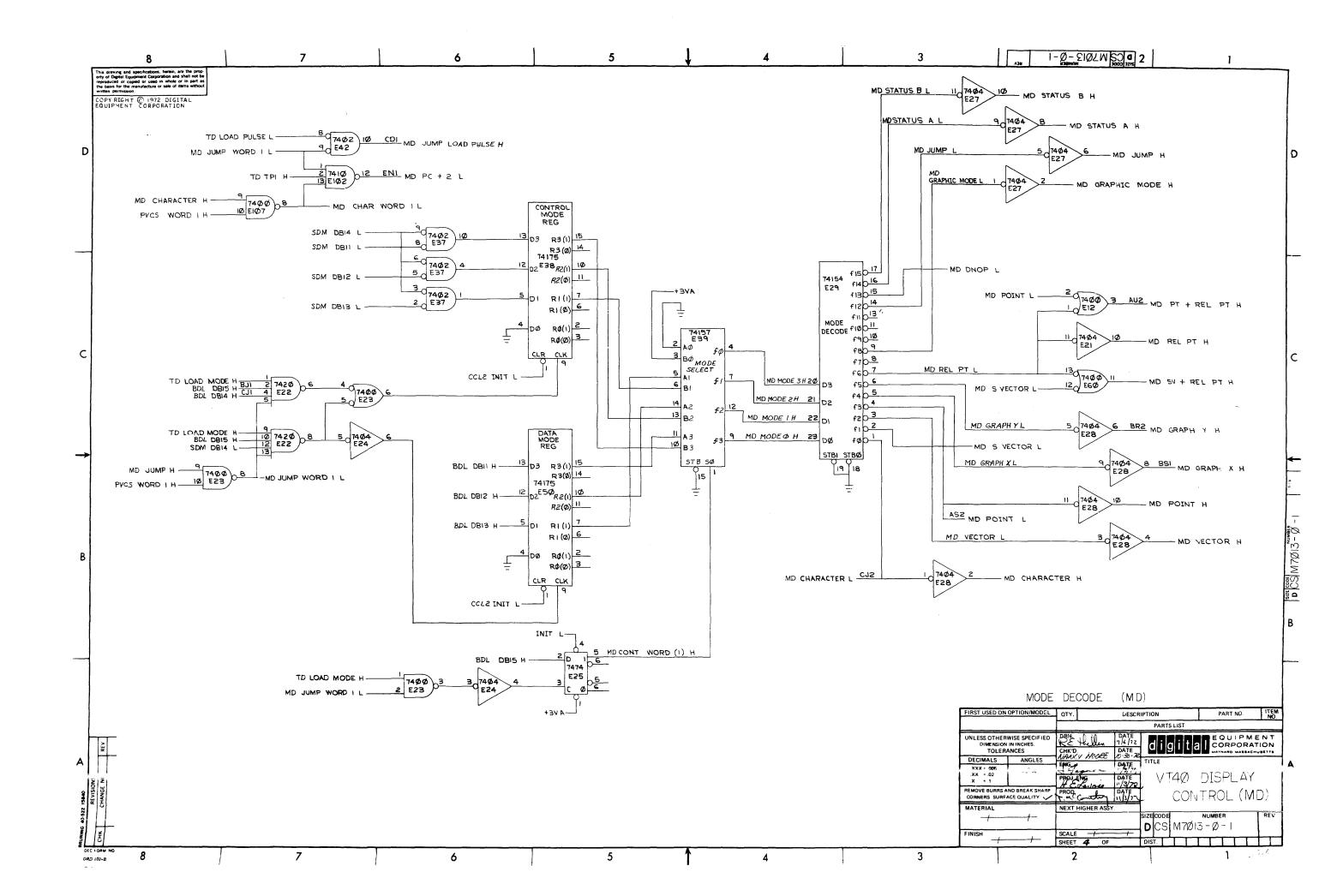


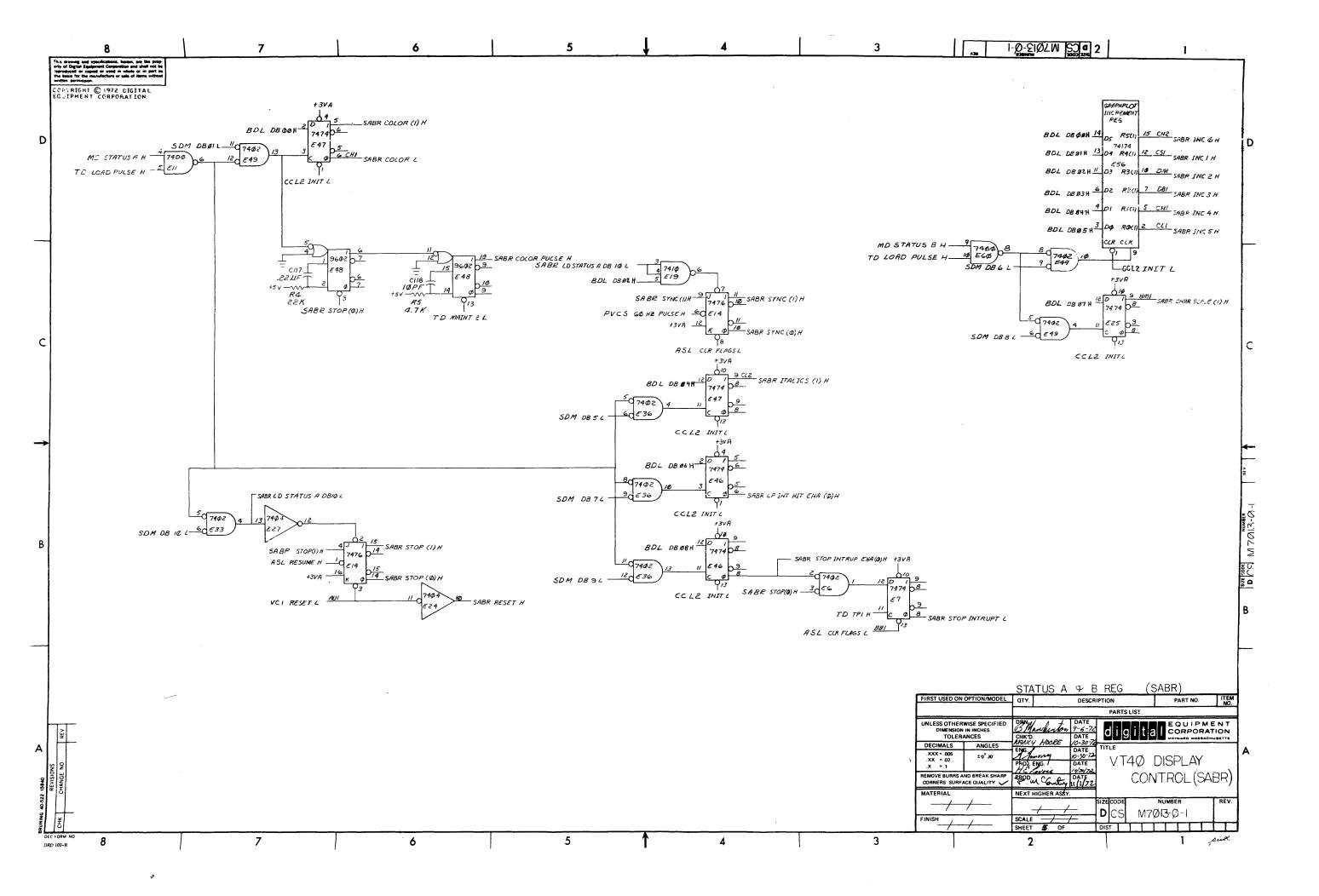
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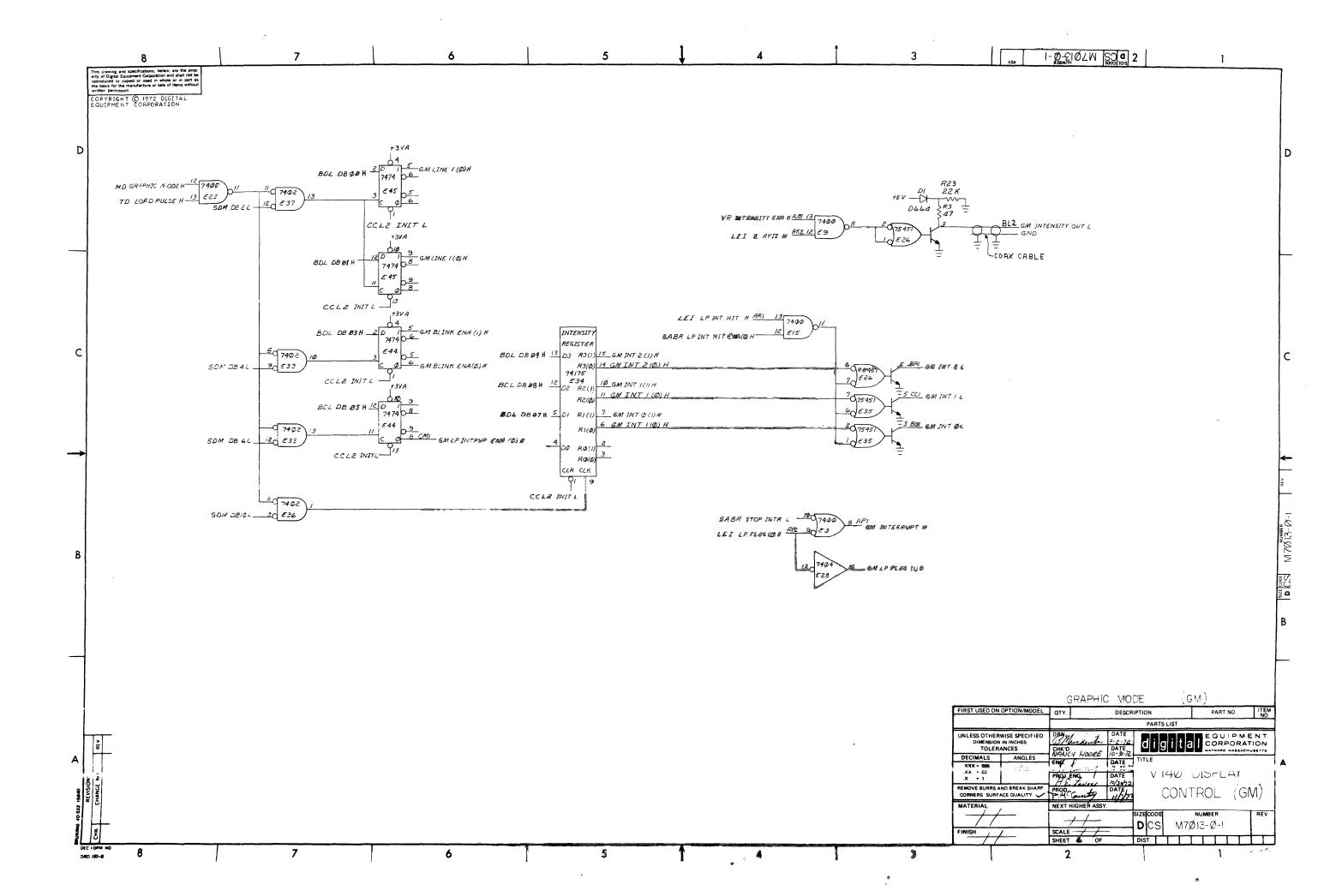


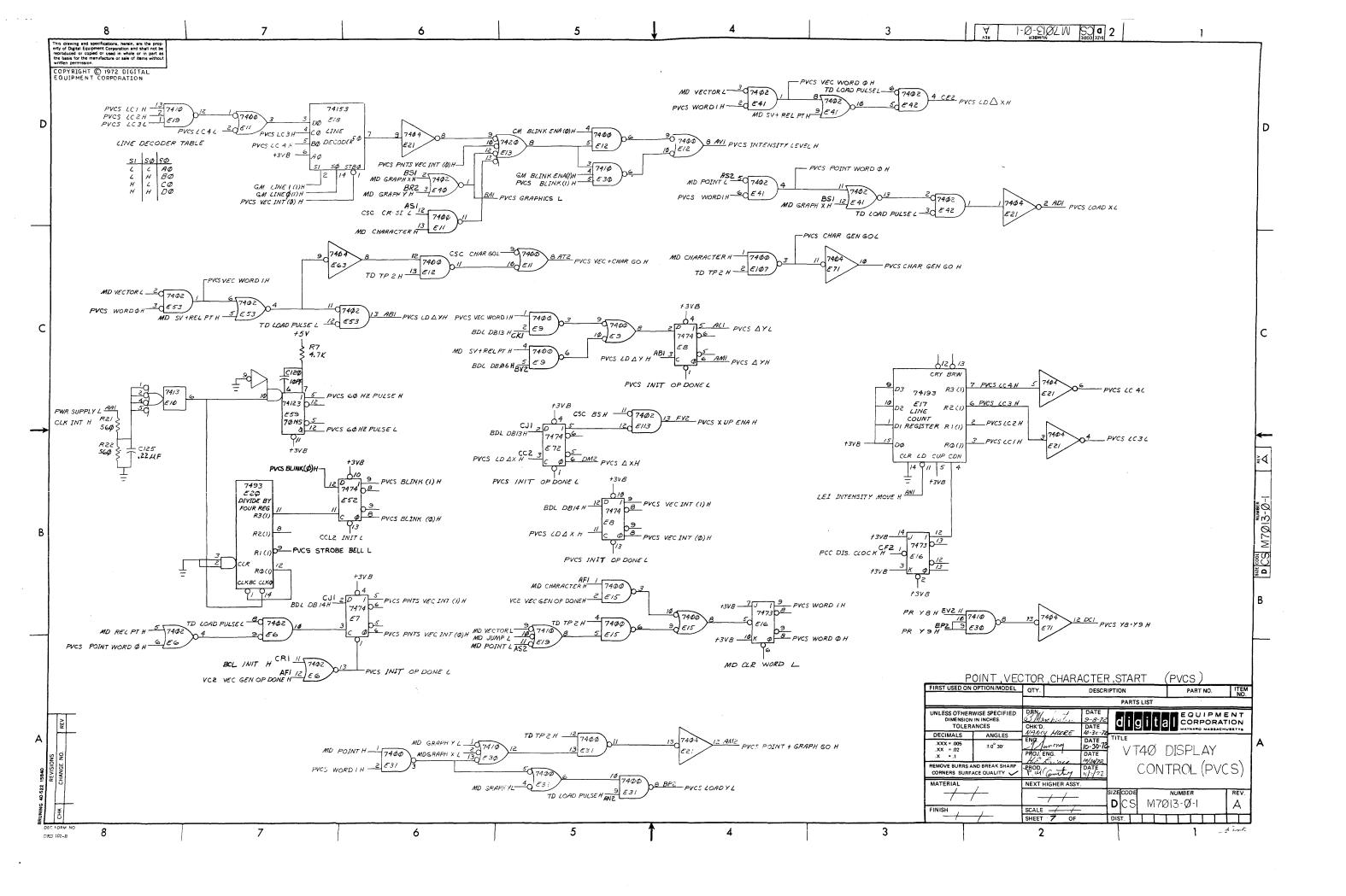


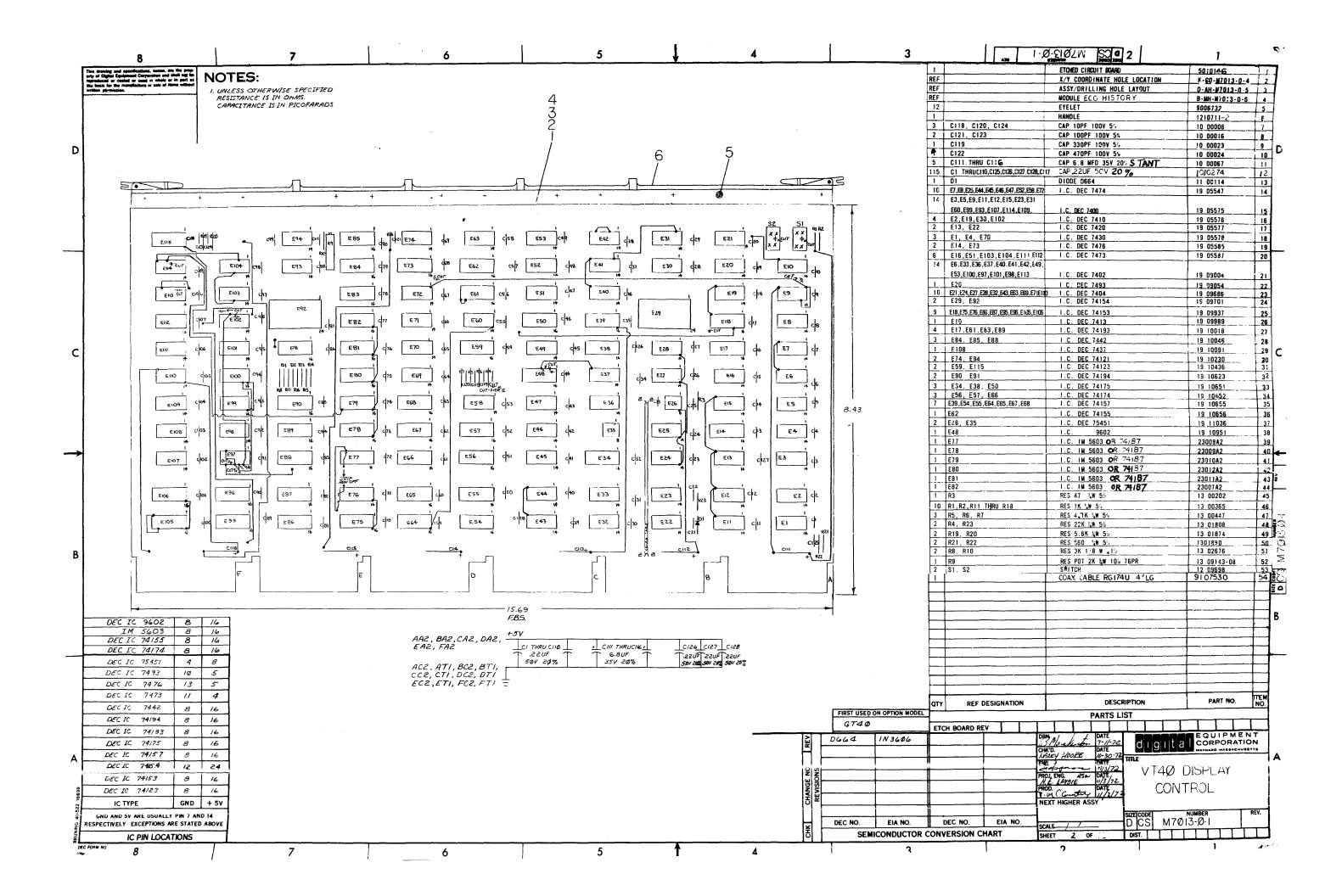
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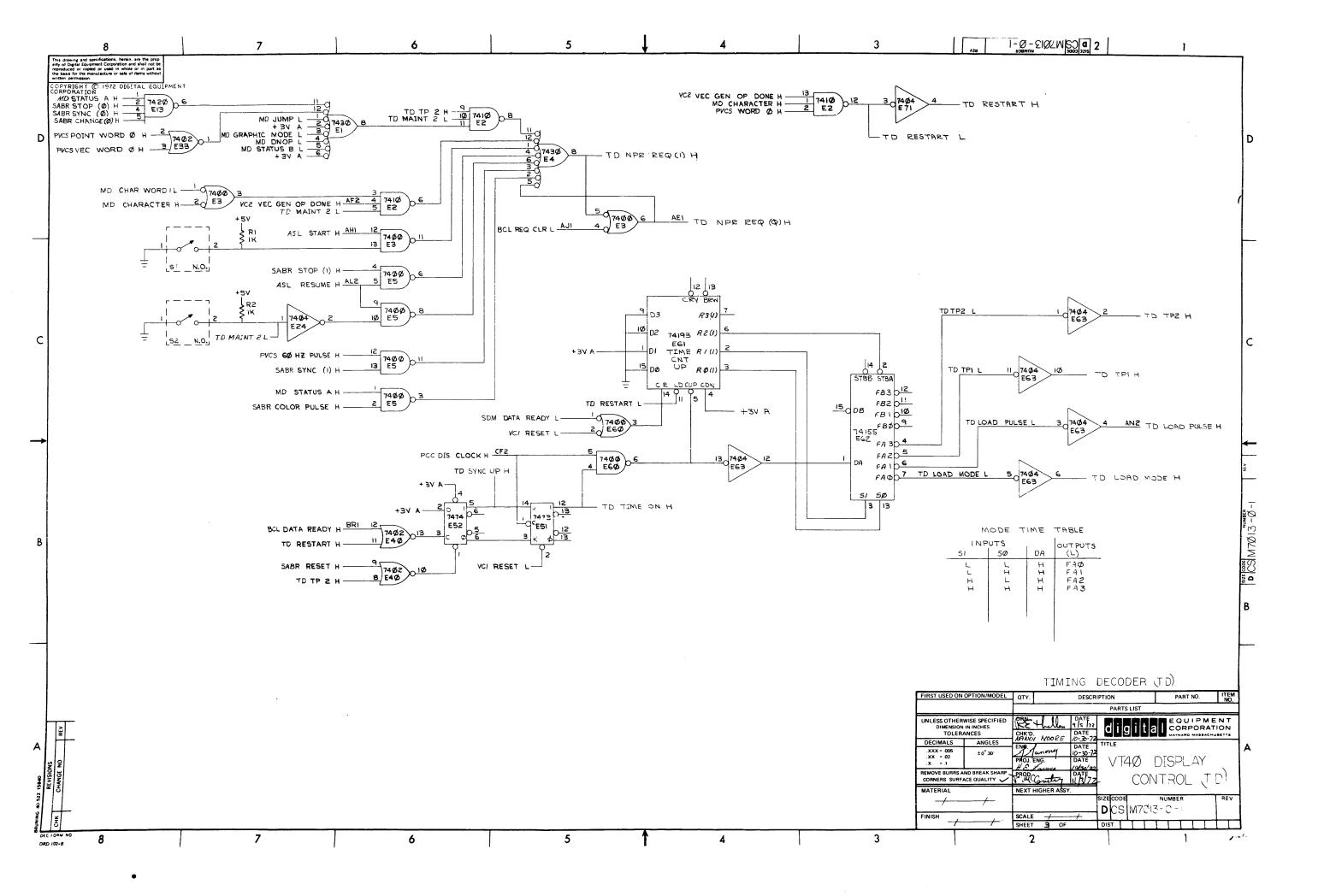


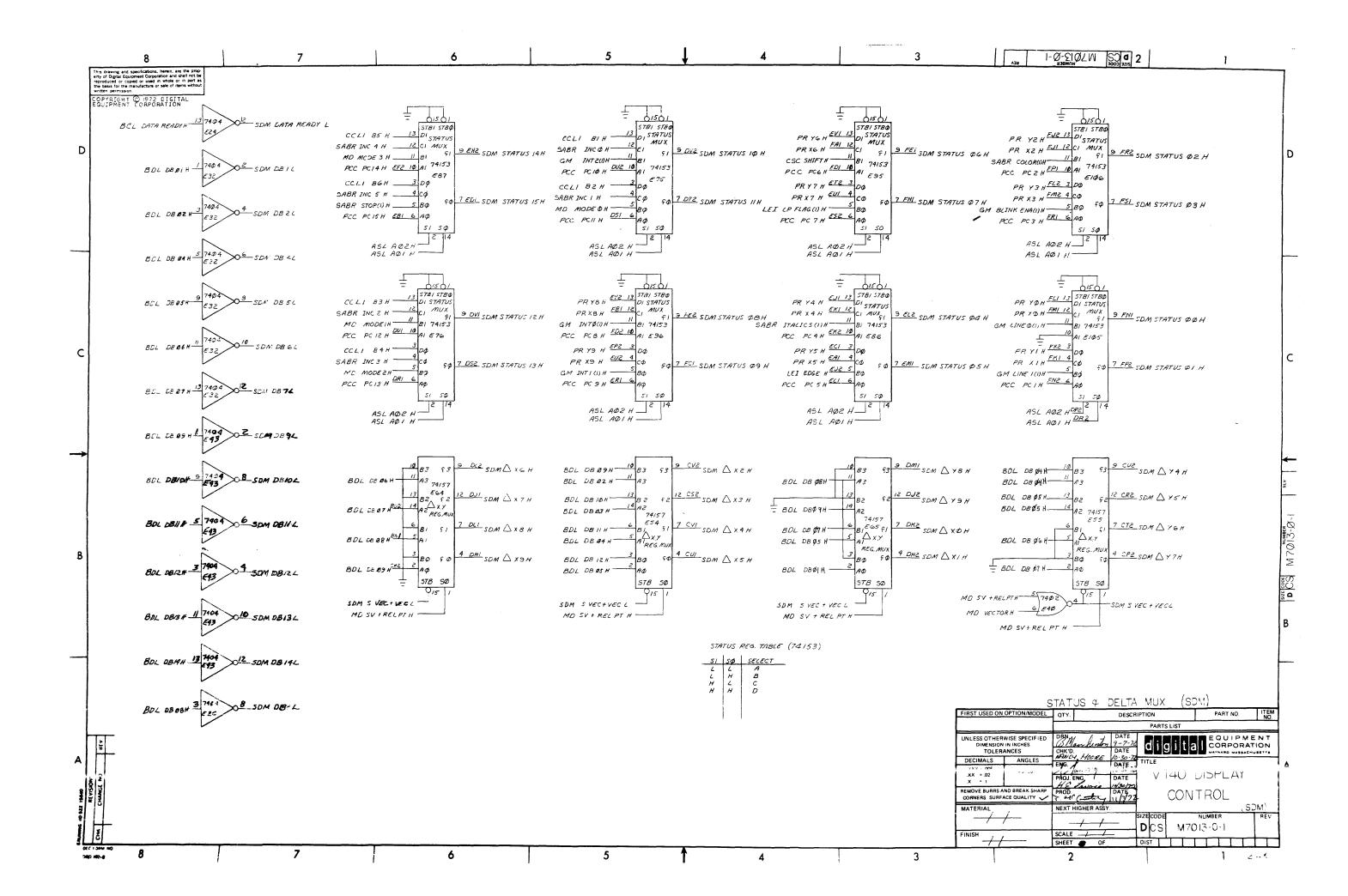


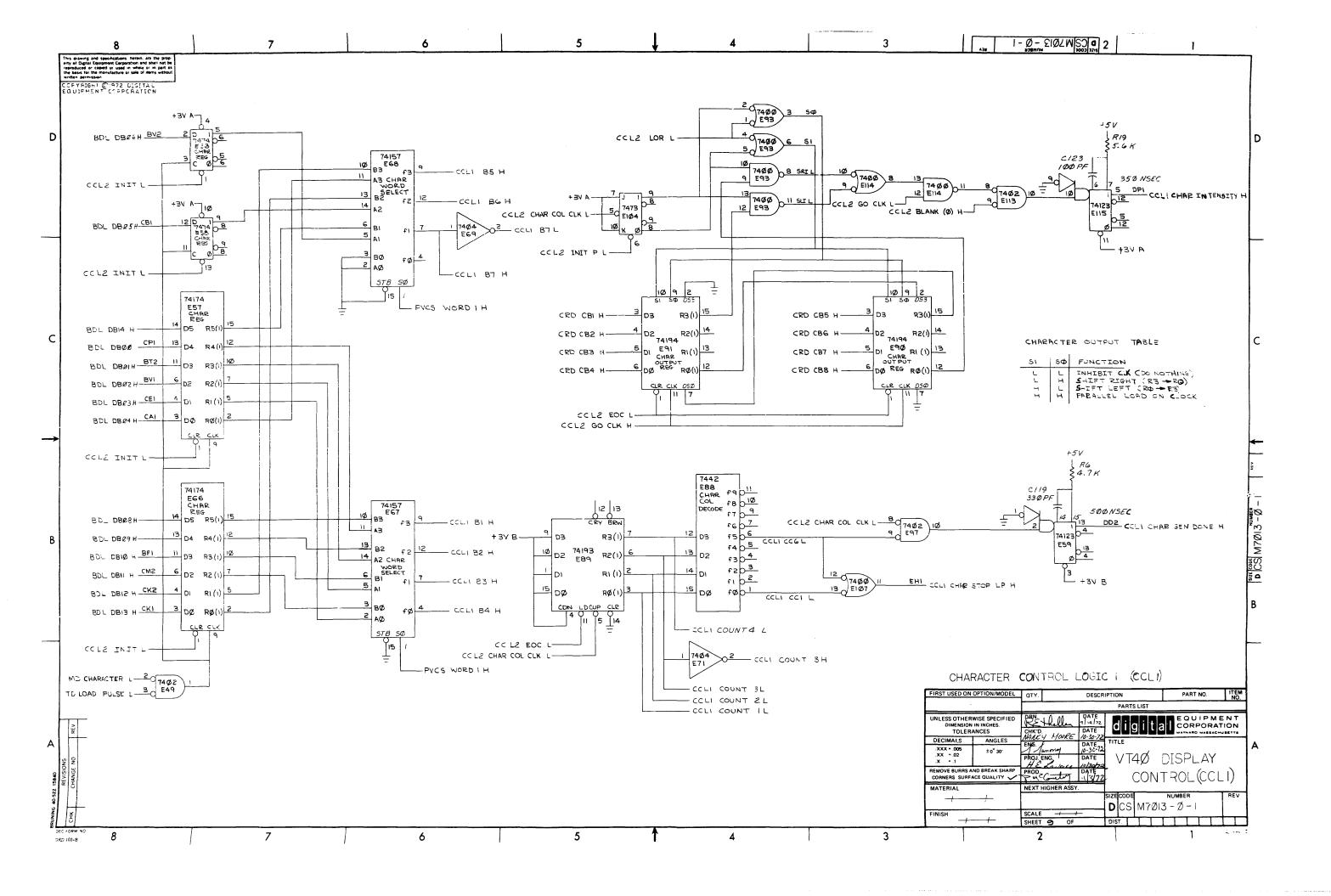


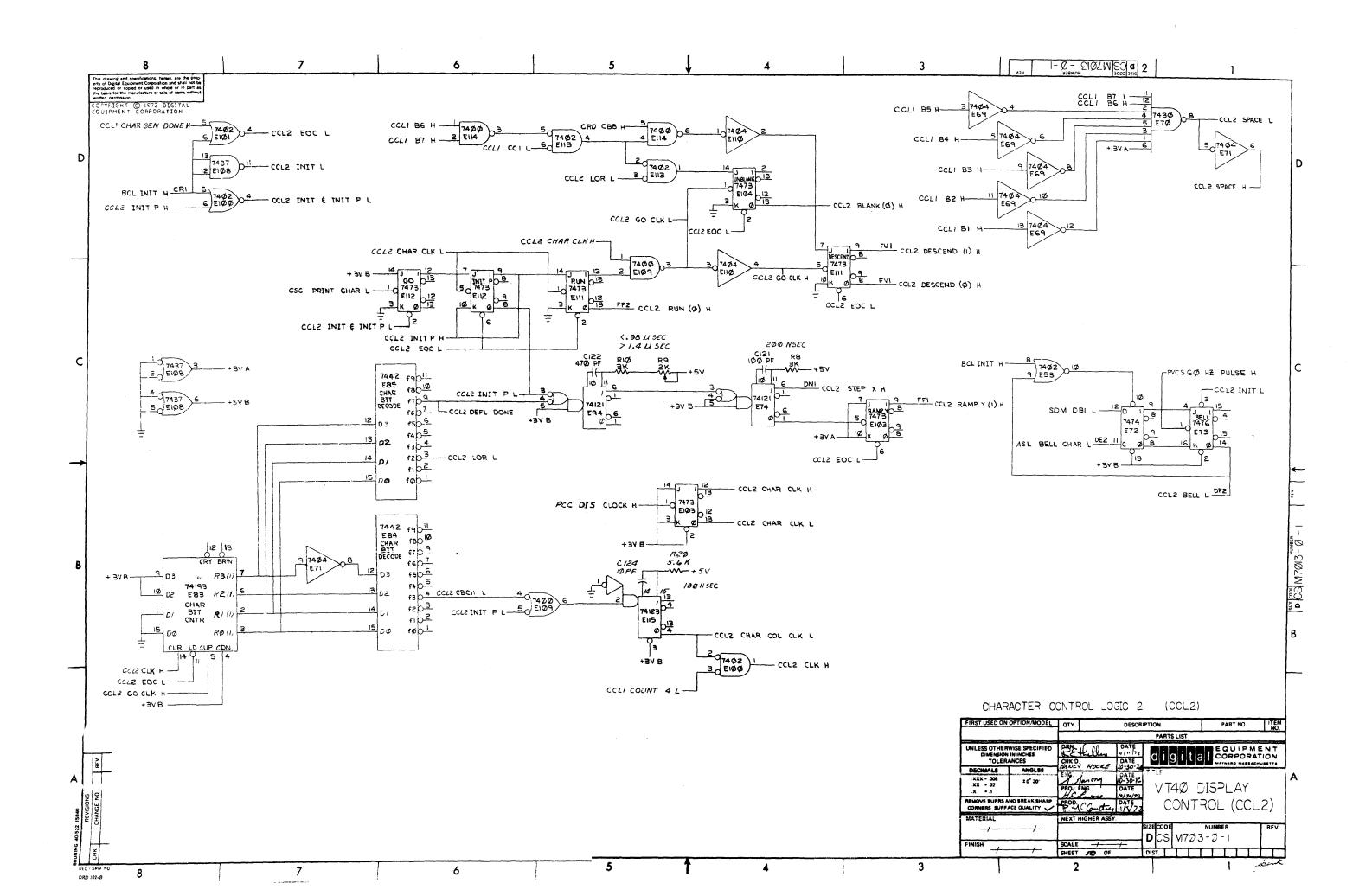


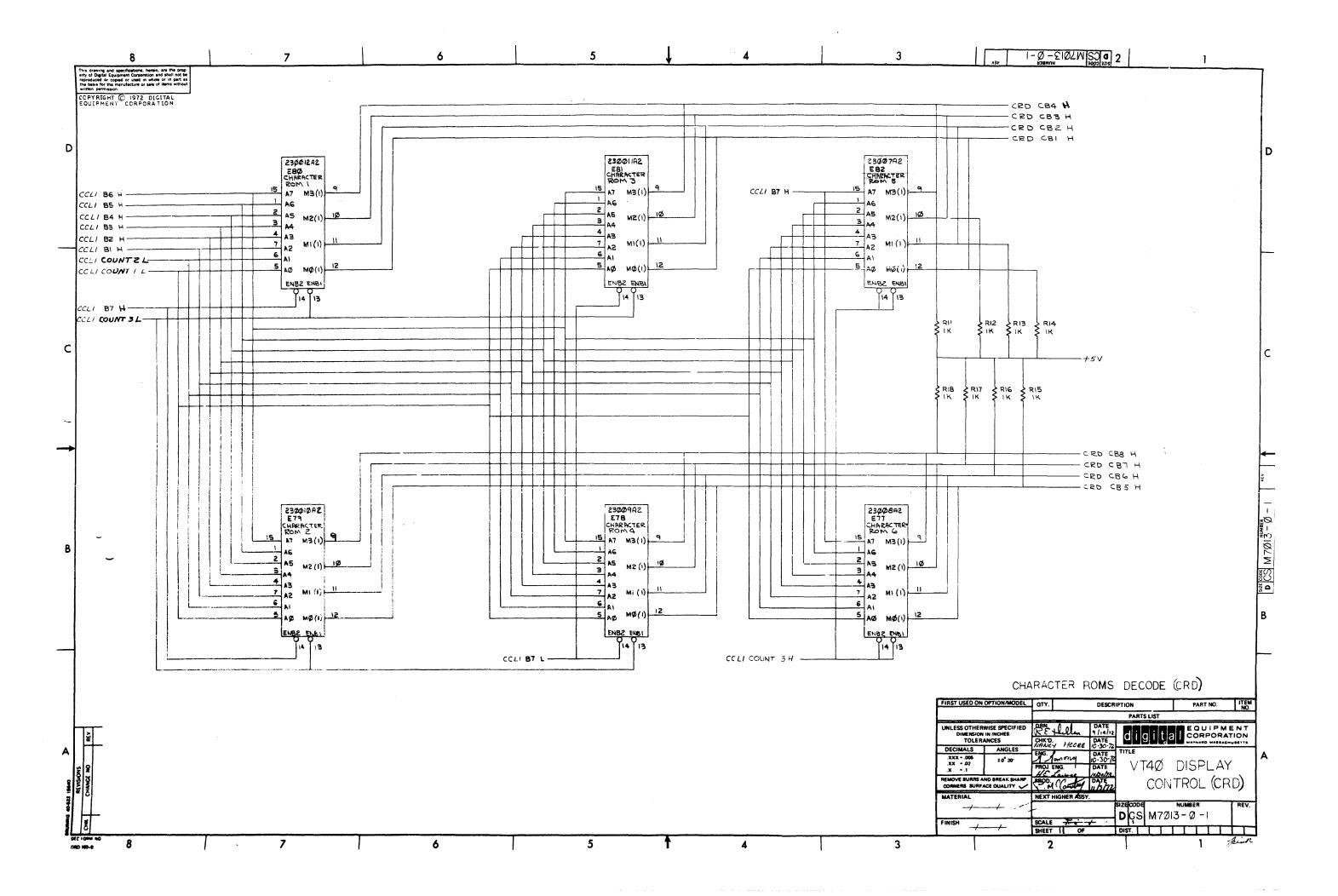


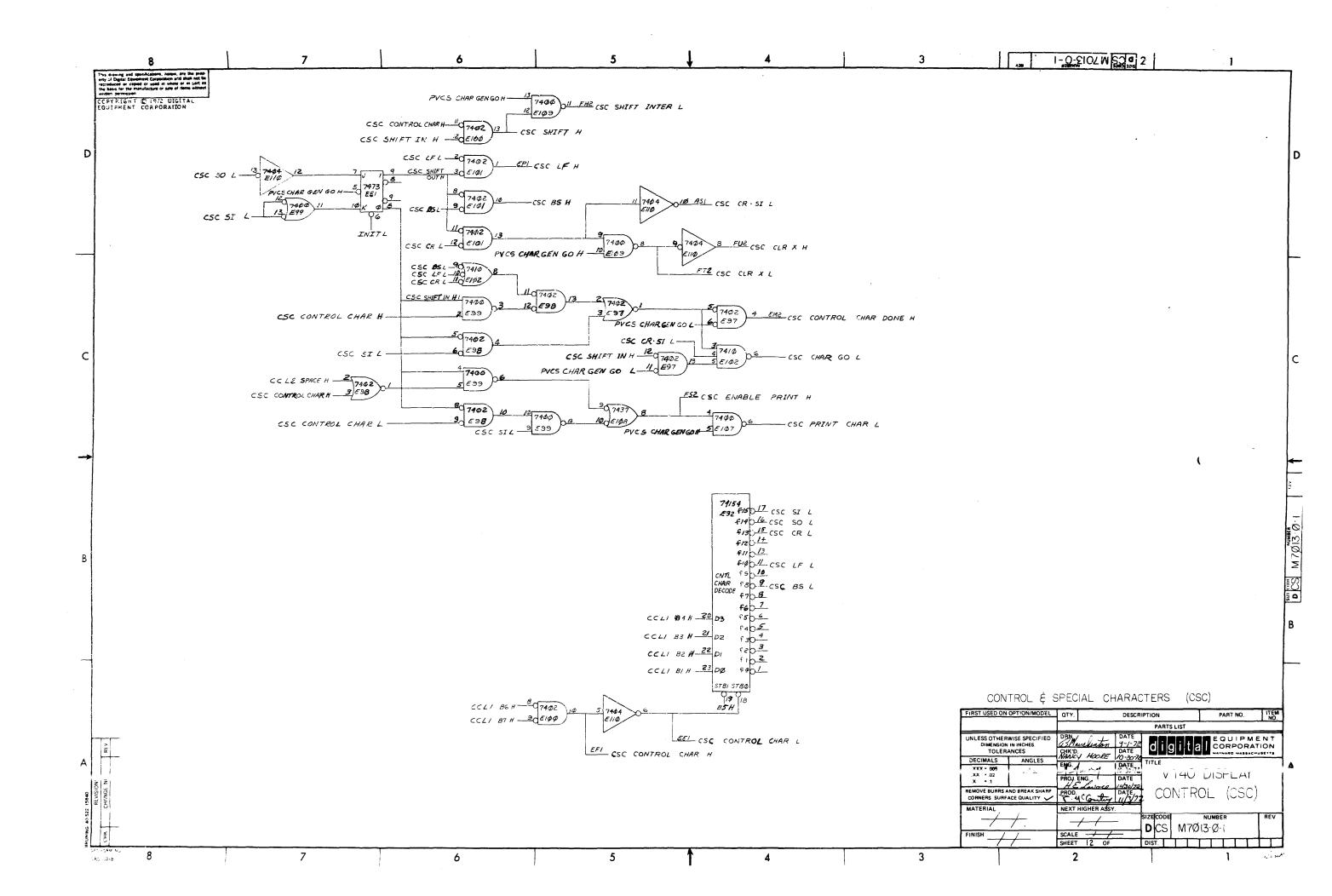


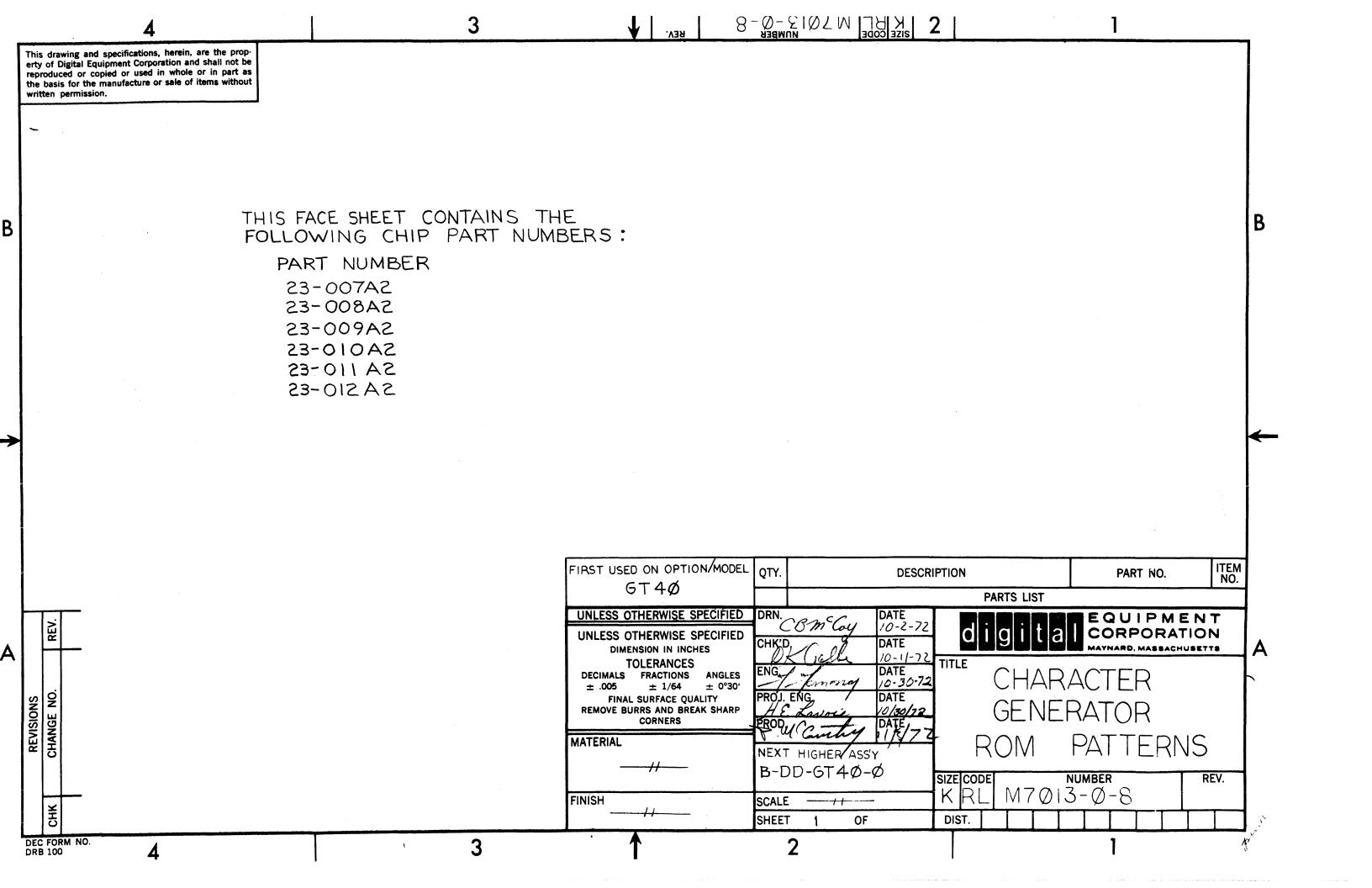












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DECIMAL	OCTAL	BINARY	OCTAL	
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252	374	0010	02	
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255	377	1001	11	

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10	012	0010	02	
11	013	1111	17	
12	014	1100	14	
13	015	1010	12	
14	016	1001	11	
15	017	1000	10	
16	020	0000	00	
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29	035	1001	11	
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ROM PATTERN SPEC PAGE 7 OF 8 DEC PART NUMBI 23-009A2 DRIGINATORI JOHN BENTON DATE OF ORIGIN: 8-4-72 OCTAL DECIMAL LOC BINARY DCTAL DATA DATA 217 218 0110 332 333 1001 ,334 222 223 336 0001 01 00 225 226 227 341 1000 10 10 343 1000 1000 346 347 10 10 351 352 353 233 234 0000 0110 0110 237 238 239 356 1000 0110 10 06 361 362 363 241 242 0001 0010 246 247 366 0001 0001 01 371 372 373 250 251 0010 0001

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ROM PATTERN SPEC PAGE 5 OF 8 DEC PART NUMB! 23-010A2 ORIGINATOR: JOHN BENTON DATE OF ORIGIN: 8-15-72 DECIMAL LOC DCTAL BINARY DCTAL LDC DATA DATA 145 146 147 221 222 223 10 04 04 0100 0100 149 150 151 226 0100 0100 04 04 153 154 155 231 232 233 16 05 235 236 237 157 158 159 1110 0001 01 01 161 162 163 241 242 243 1000 0100 165 166 167 245 246 247 04 15 169 170 171 00 00 252 253 173 174 175 00 257 261 262 263 177 178 179 17 00

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	DEC PART NUMBI 23-010A2 GRIGINATOR: JOHN BENTON DATE OF GRIGIN: 8-15-72	ROM PATTERN	SPEC	PAGE 7 OF 8		
, ,,	DECIMAL Loc	DCTAL LDC	BINARY	DCTAL Data	- -	
	216	330	0000	00		
_	217	331	1100	14		
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r	220	334	0000	00		
•	221	335	1100	14		
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DEC PART NUMBI 23-010A2 ORIGINATOR: JOHN BENTON DATE OF ORIGIN: 8-15-72	ROM PATTI	ERN SPEC	PAGE 8 OF 8
DECIMAL	OCTAL	BINARY	DCTAL
LOC	LOC	Data	Data
252	374	0000	00
253	375	1111	17
254	376	1111	17
255	377	1111	17

ROM PATTERN SPEC PAGE 5 OF 8 DEC PART NUMBI 23-011A2 ORIGINATORI JOHN BENTON DATE OF ORIGINI 8-15-72 DECIMAL LOC OCTAL LOC DCTAL DATA BINARY DATA 145 146 147 221 222 223 1111 0000 17 00 225 226 150 02 153 154 155 231 232 233 02 17 157 158 159 235 236 237 0010 1100 241 242 243 161 162 163 0110 0010 1100 06 02 14 246 247 166 167 0001 0010 01 02 251 252 253 169 170 171 0000 1111 00 17 173 174 175 256 00 17 177 178 179 261 262 263 0011 1000 0111 03 10 07

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	ROM PATTER	N SPEC	PAGE 6 DF	8
DEC PART NUMBI 23-011A2	,,	.,		
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DATE OF ORIGIN: 8-15-72				•
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LOC	LOC	DATA	DATA	
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180	264	0101	05	***
181	265 266	0011	03	
182 183	267	0001	01 00	
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184	270	9000	00	
185	271	0000	00	
186	272	1111	17	
187	273	0000	00	
188	274	0100	0.4	
189	275	1000	04 10	a ware
190	276	0000	00	
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194	302	0100	04	
195	303	1000	10	
196	304	0100	04	
197	305	1000	10	
198	306	0100	04	
199	307	1000	10	
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200 201	310 311	1000	10 17	
202	312	1111 0100	04	
203	313	1000	10	
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204	314	0101	05	
205	315	0001	01	
206 207	316	0010	02	
207	317	1111	17	
208	320	0100	04	
209	321	1000	10	
210	322	0000	00	and the second s
211	323	0000	00	
212	324			
213	324 325	1111	17	
214	326	0000	00	
215	327	0100 0100	04	
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	EC PART NUMB: 23-011A2	ROM PATT	ERN SPEC	PAGE 7 OF	. 8	
ם נז	RIGINATOR: JOHN BENTON ATE OF ORIGIN: 8-15-72		- ***			
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	LOC	FOC	BINARY	OCTAL		
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	216	330	0000	00		
	217	331	0000	00		e la la la la company de servicio de la company de la comp
	218	332	0100	04		
	219	333	1000	10		
	217	000	1000	10		
	220	334	0100	0.4		
	221	335	1000	10		
	222	336	0100	04		THE RESIDENCE OF THE PROPERTY
	223	337	1000	10		
	224	,007	1000	. 10	The second secon	
	224	340	0001	01		
	225	341	1110	16		
	226	342	0010			
	227	342 343	1111	02 17	A CONTRACTOR OF THE CONTRACTOR	
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	228	344	0100	04		
	229	345	0100	04		
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	339	357	1100	14		
	240	360	1000	10		
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	244	364	1100	14		
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	246	366	0001	01		
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	250	372 373	0110	06		
	251	3/3	1000	10		

DEC PART NUMB! 23-011A2 PRIGINATOR: JOHN BENTON DATE OF ORIGIN: 8-15-72	ROM PATTERN	SPEC	PAGE 8 OF 8
DECIMAL LOC	OCTAL LOC	BINARY DATA	DCTAL Data
252 253 254 255	374 375 376 377	0000 1100 1111 1111	00 14 17

ROM PATTERN SPEC DEC PART NUMBI 23-011A2 ORIGINATOR: JOHN BENTON DATE OF ORIGIN: 8-15-72 PAGE 5 OF 8 DECIMAL LOC DCTAL BINARY DCTAL FOC DATA DATA 145 146 147 221 222 223 1111 0000 149 150 226 02 231 232 233 154 155 158 159 236 237 0010 161 162 163 241 242 243 0110 1100 165 166 0110 0001 06 01 246 247 169 170 171 03 00 17 252 253 174 175 256 00 17 177 178 179 261 262 263 0011 1000 0111 03

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	ROM PATTER	N CBEC	PAGE 6 DF	8
DEC PART NUMBI 23-011A2	NOM PALIEN	N SPEC	PAGE 6 UP	•
RIGINATOR: JOHN BENTON		•		
DATE OF ORIGINA 8-15-72				
	_ .	_		
DECIMAL	OCTAL	BINARY	DCTAL	
LOC	FOC	DATA	DATA	
180	264	0101	05	
181	265	0011	03	•••
182	266	0001	01	
183	267	0000	00	
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184	270	0000	00	
185	271	0000	00	
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187	273	0000	00	e e e e
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193	301	0000	00	
194	302	0100	04	
195	303	1000	10	
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197	305	1000	· 10	
198	306	0100	04	
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201	311	1111	10 17	
202	312	0100	04	
203	313	1000	10	
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206	316	0010	02	
207	317	1111	17	
208	320	84 65		
209	321	0100	04	
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212	324	1111	17	
213	325	0000	00	A A A A
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215	327	0100	04	and the same of th

	DEC PART NUMBI 23+011A2 DRIGINATORI JOHN BENTON DATE OF ORIGIN: 8+15+72	ROM PAT	TERN SPEC	PAGE 7 OF	
	DECIMAL	DCTAL	BINARY	OCTAL	The first annual control of the state of the
,	LOC	roc	DATA	DATA	
	216	330	0000	00	
	217	331	9000	00	
(218	332	0100	04	
•	219	333	1000	10	The state of the s
(220	334	0100	. 04	
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	224	340	0001	01	
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	228 229	345	0100	04	
	230	346	0100	04	
	231	347	0100	04	
	232	350	0100	04	
•	233	351	0000	00	
	234	352	0000	00	
	235	353	1100	14	CONTROL OF THE STATE OF THE STA
	236	354	0000	00	
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•	238	356	0000	14	
	239	357	1100	14	
`	240	360	1000	10	
	241	361	0100	04	
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•	243	363	1111	17	
	244	364	1100	- · · · · · · · · · · · · · · · · · · ·	
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D E	EC PART NUMBI 23-011A2	ROM	PATTERN SPEC	PAGE 8 QF 8	
	RIGINATOR: JOHN BENTON ATE OF ORIGIN: 8=15-72		<u>.</u>		
	DECIMAL LGC	OCTAL LOC	BINARY Data	DCTAL Data	
	252 253	374 375	0000 1100	00 14	
	254 255	376 377	1111 1111	17 17	

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DEC PART NUMBE 23-012A2	FIN ROM PATTER	अ∫्रीक्टिंद	PAGES 1 DF	8	
ORIGINATORA JOHN BENTON DATE OF DRASIN: 8-4-72	ಕ್ರತ್ ಇದರು	रैंके हैं हैं 2000	. 00		
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DEC PART NUMBI 23-012A2 DRIGINATUR: JOHN BENTON DATE OF CRIGIN: 8-4-72	ैं तं चें ** कुंद्रे • * * *	០១ ៩៤ ១ភព្	인 O 원진		
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92 93 494 495	135 135 3136 3137	1111 - 9100 - 9911 - 991	17 . 94 7 03 . 93		
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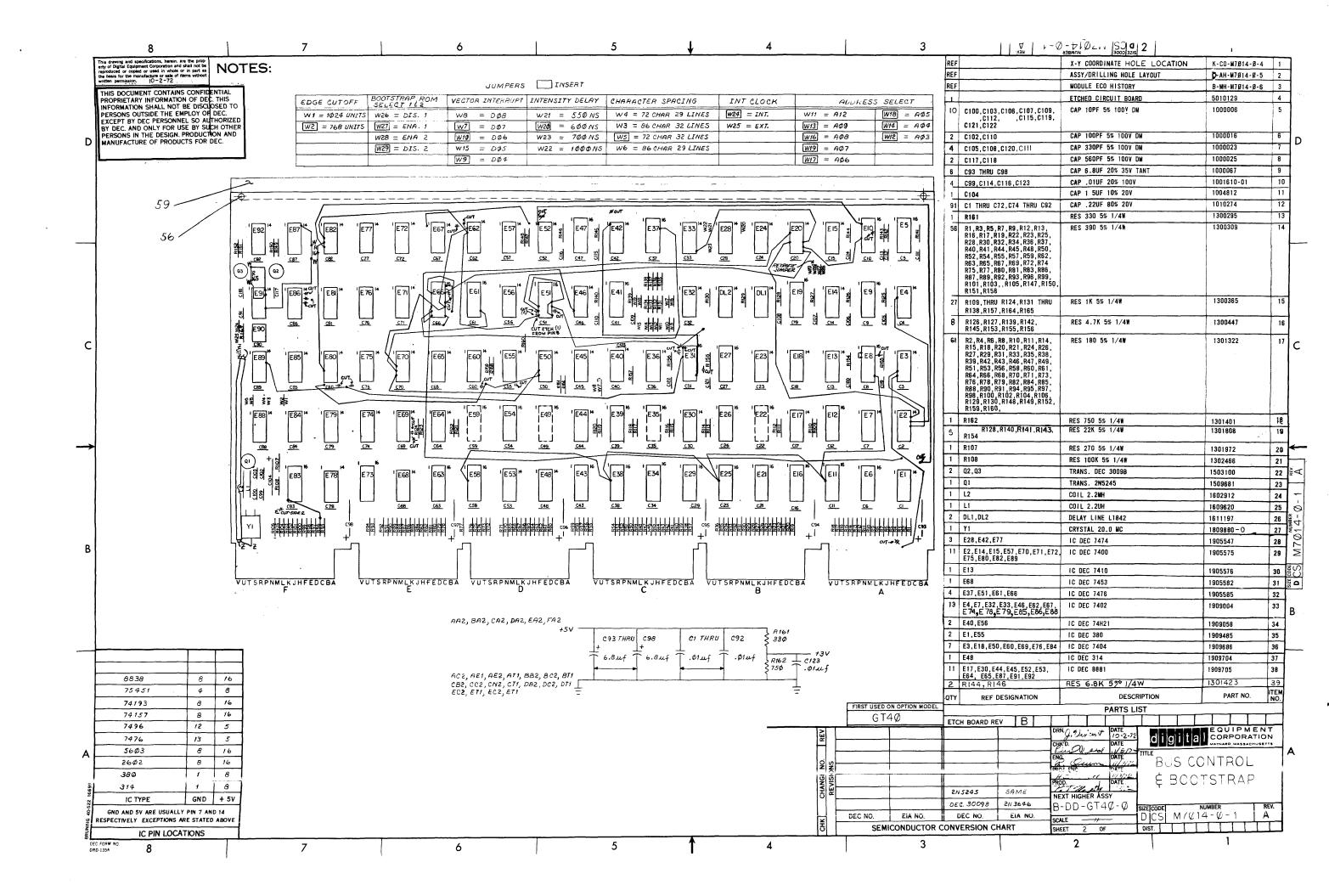
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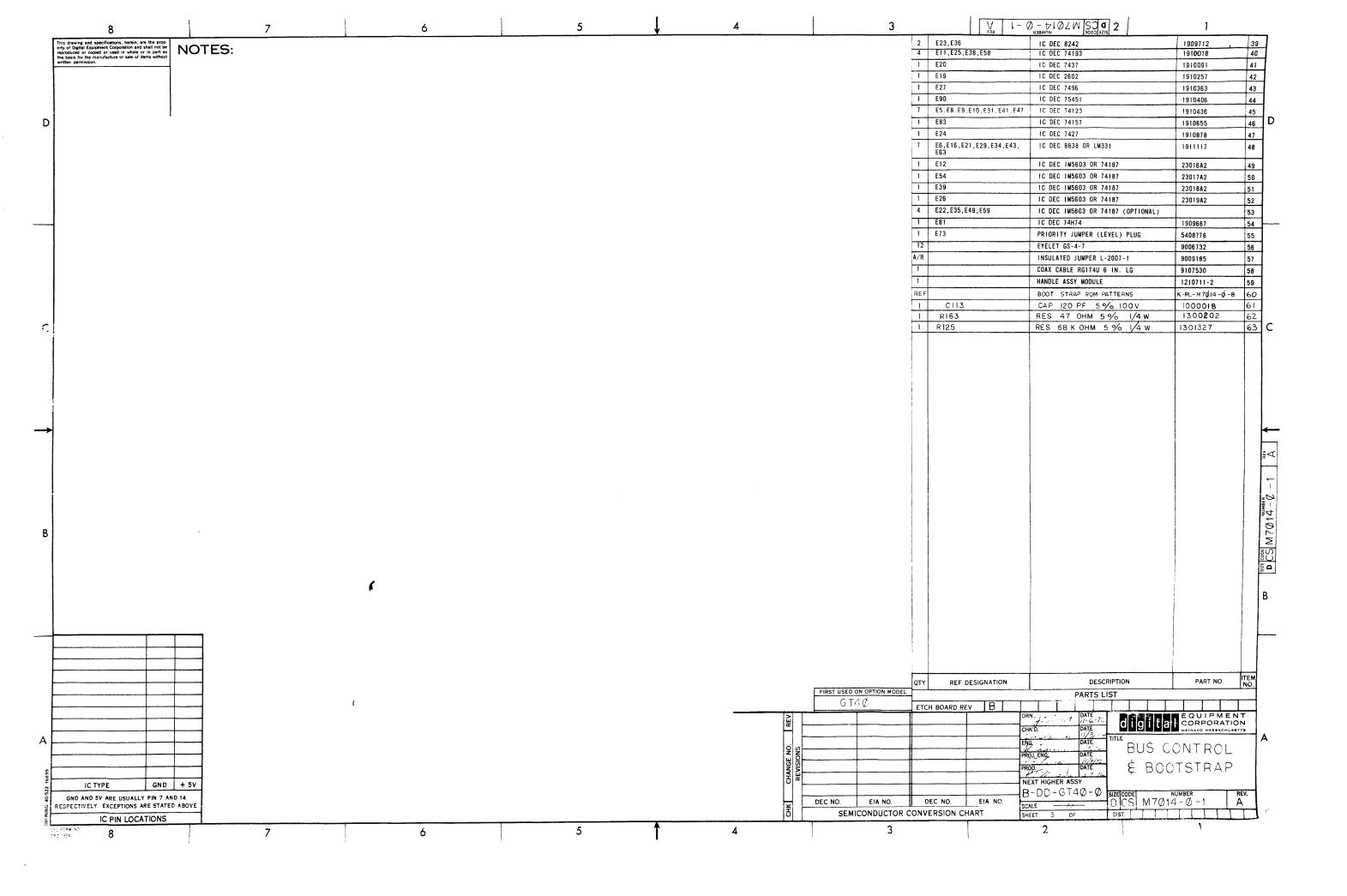
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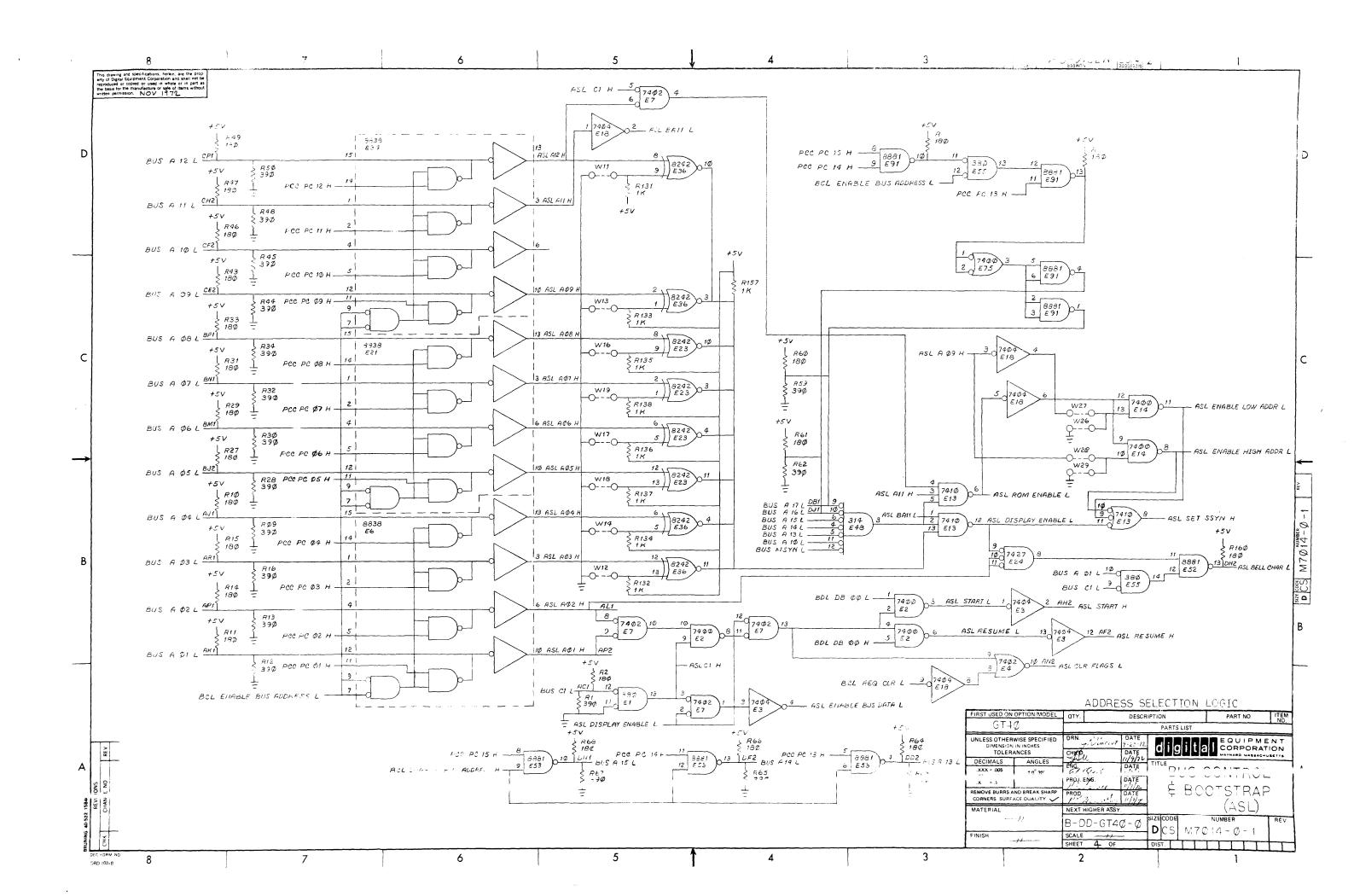
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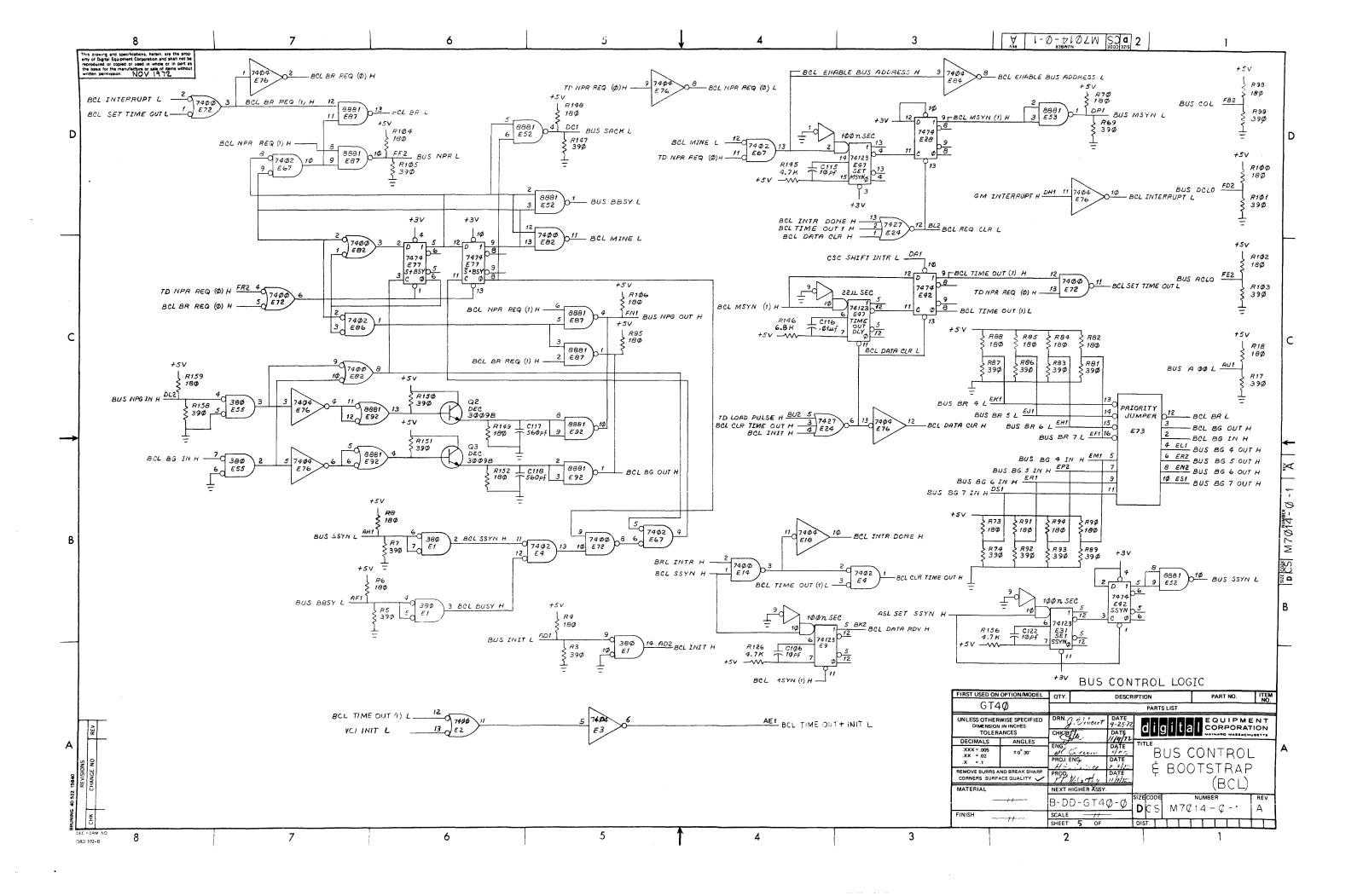
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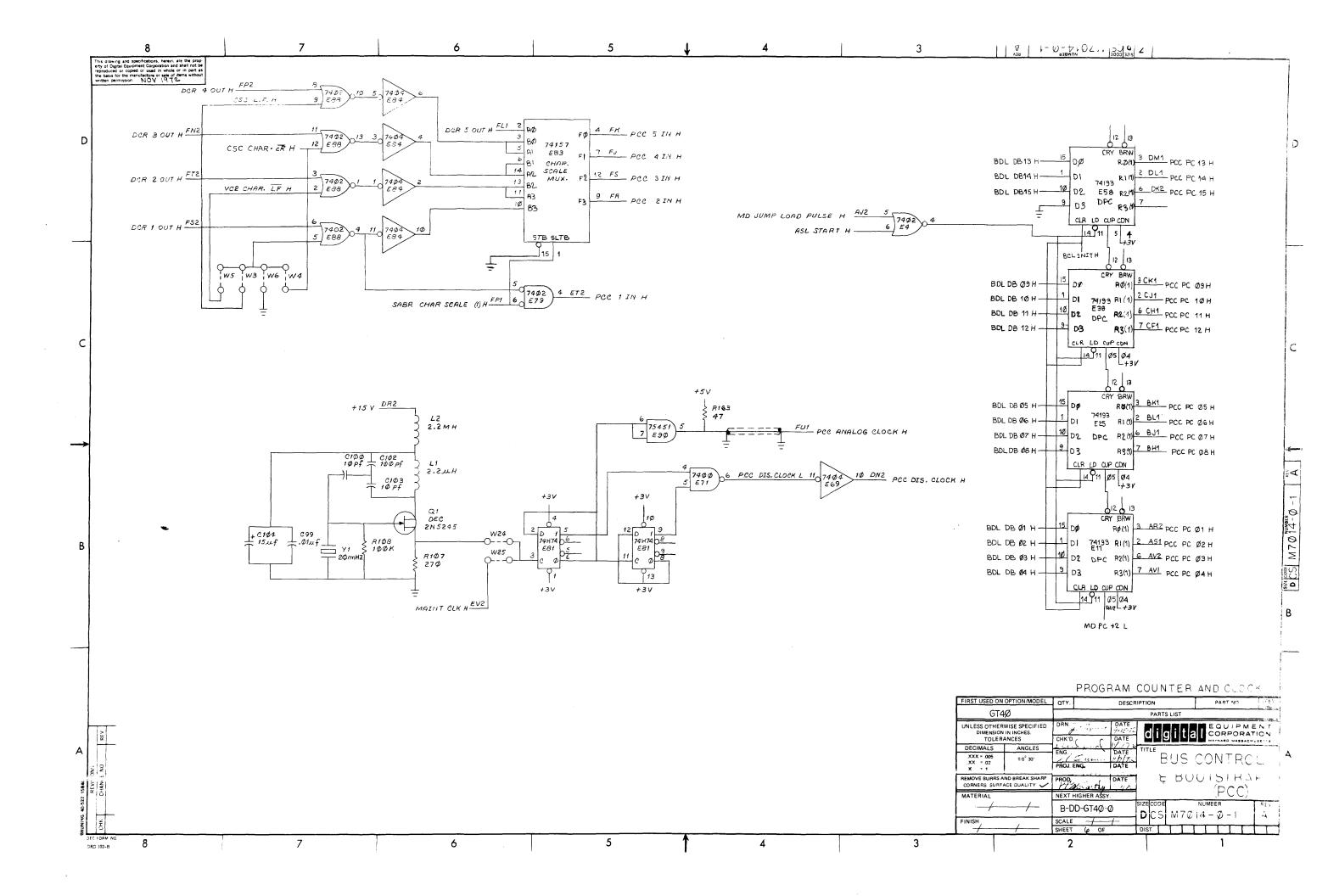
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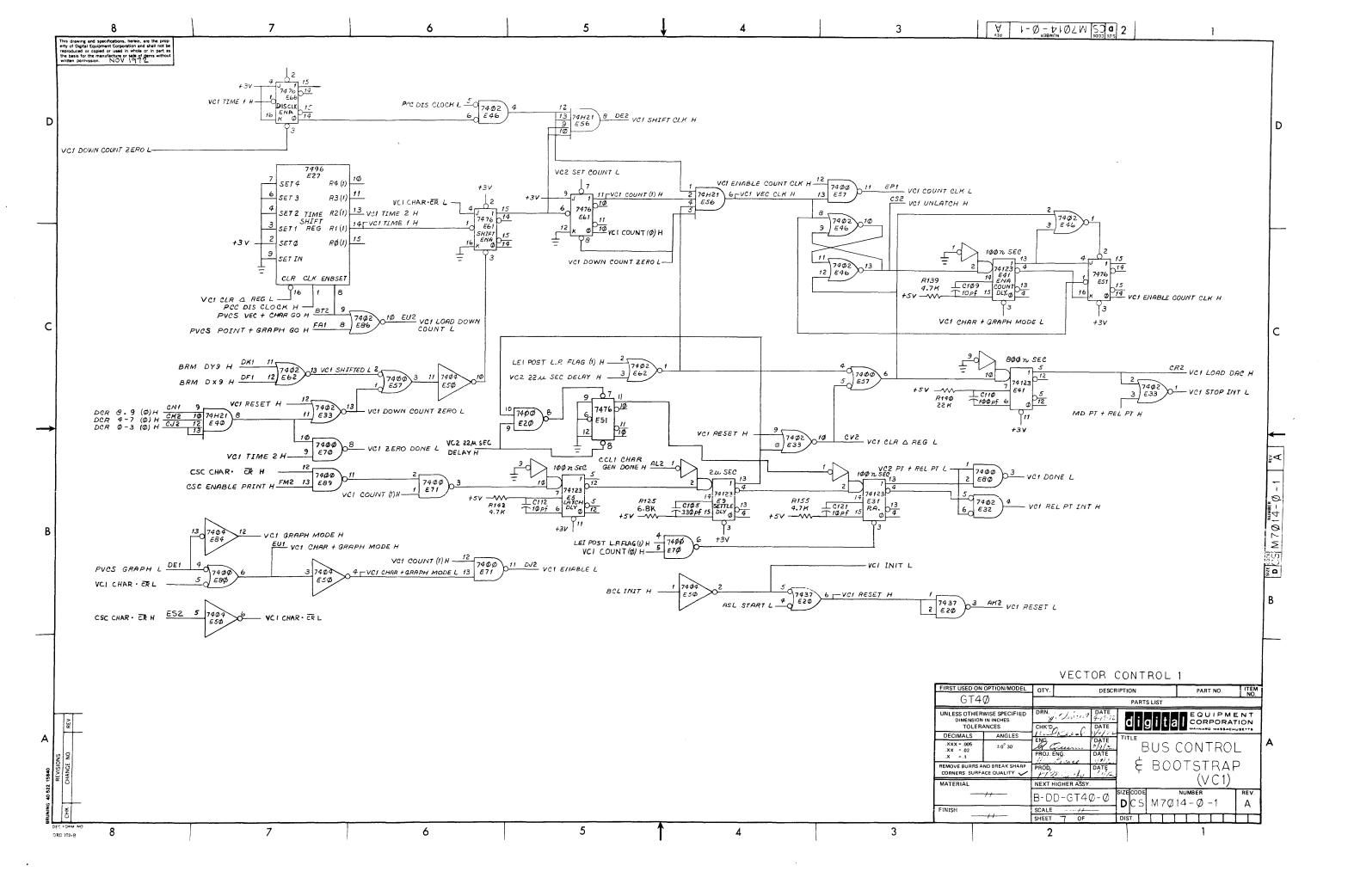


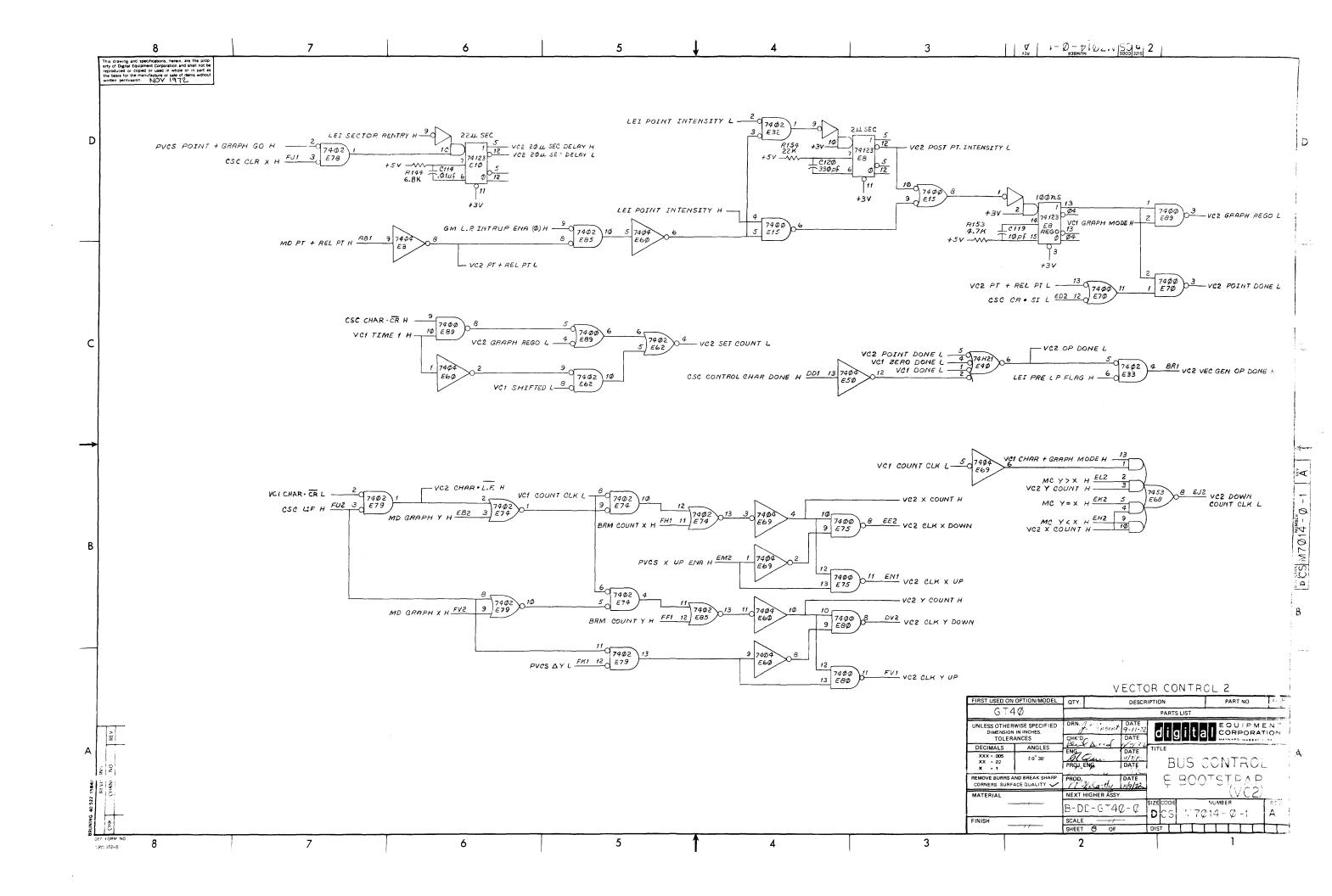


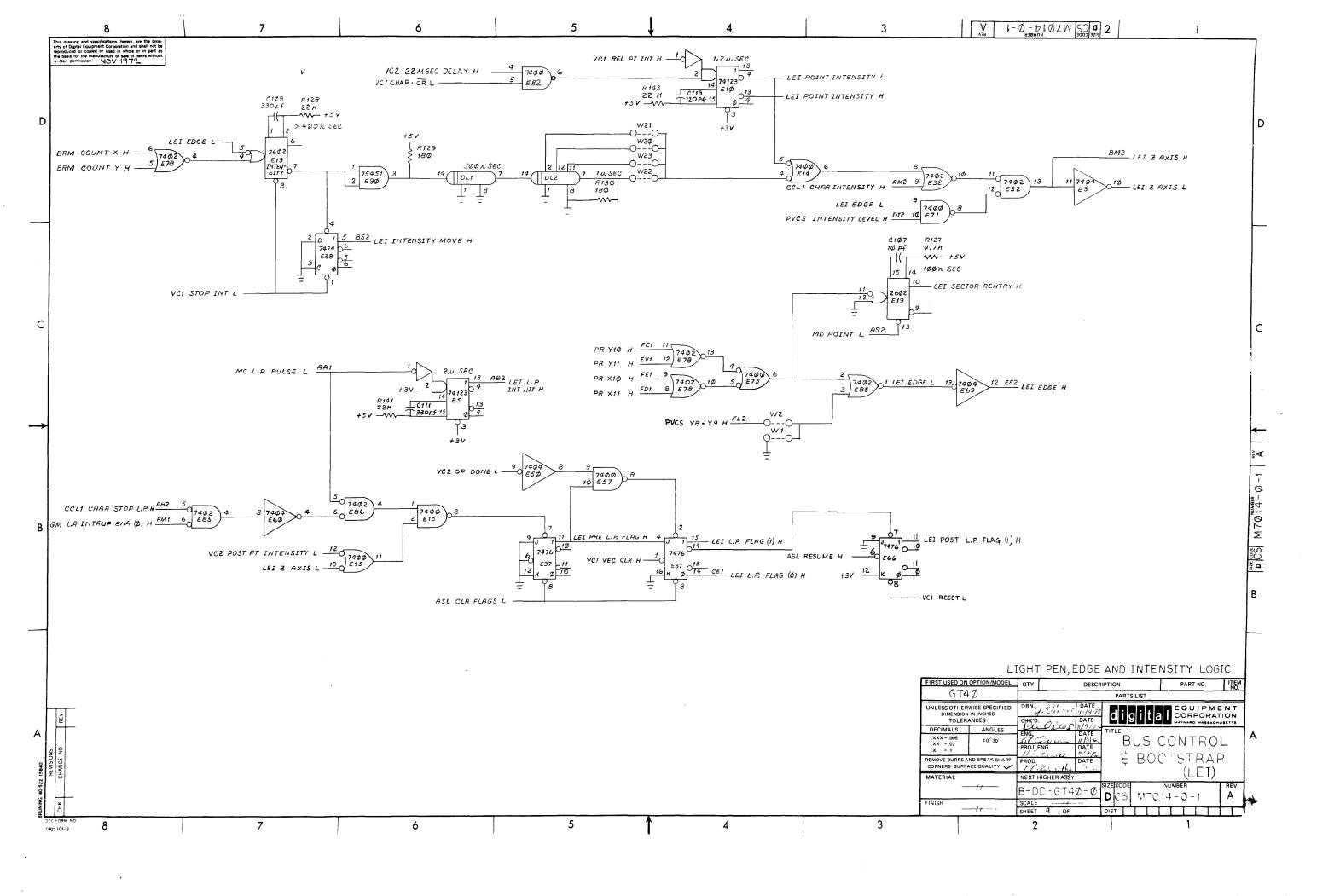


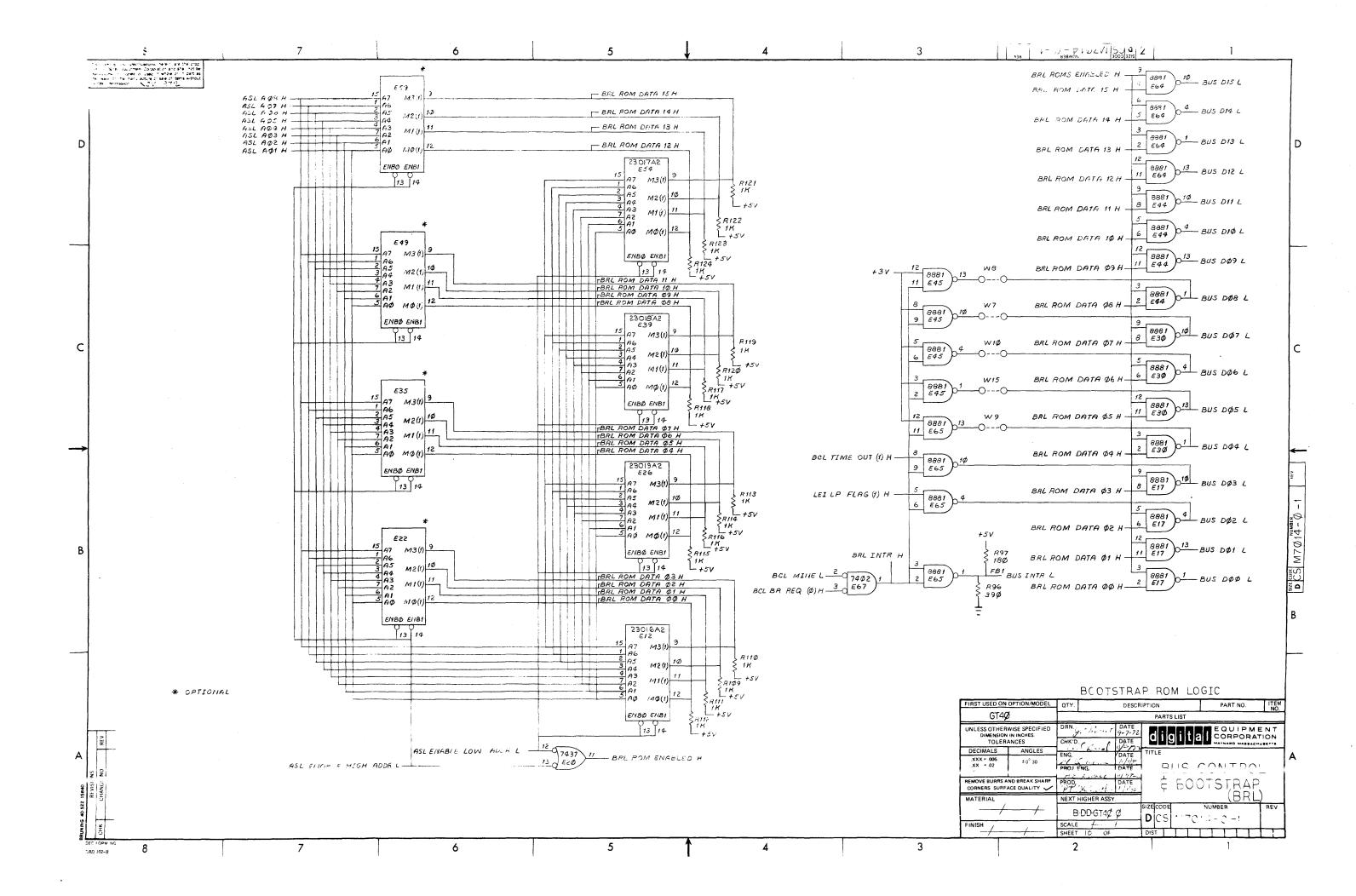


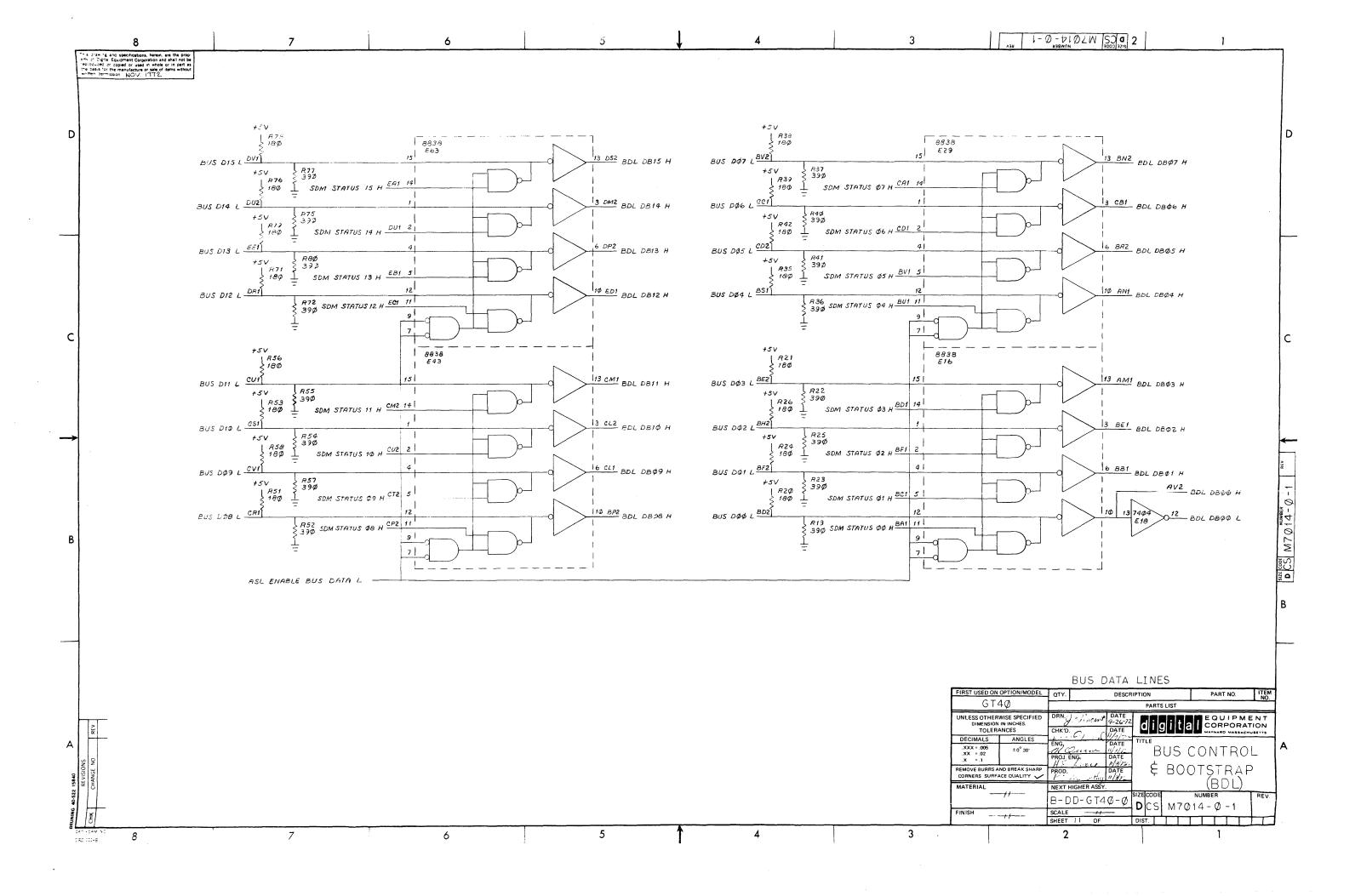


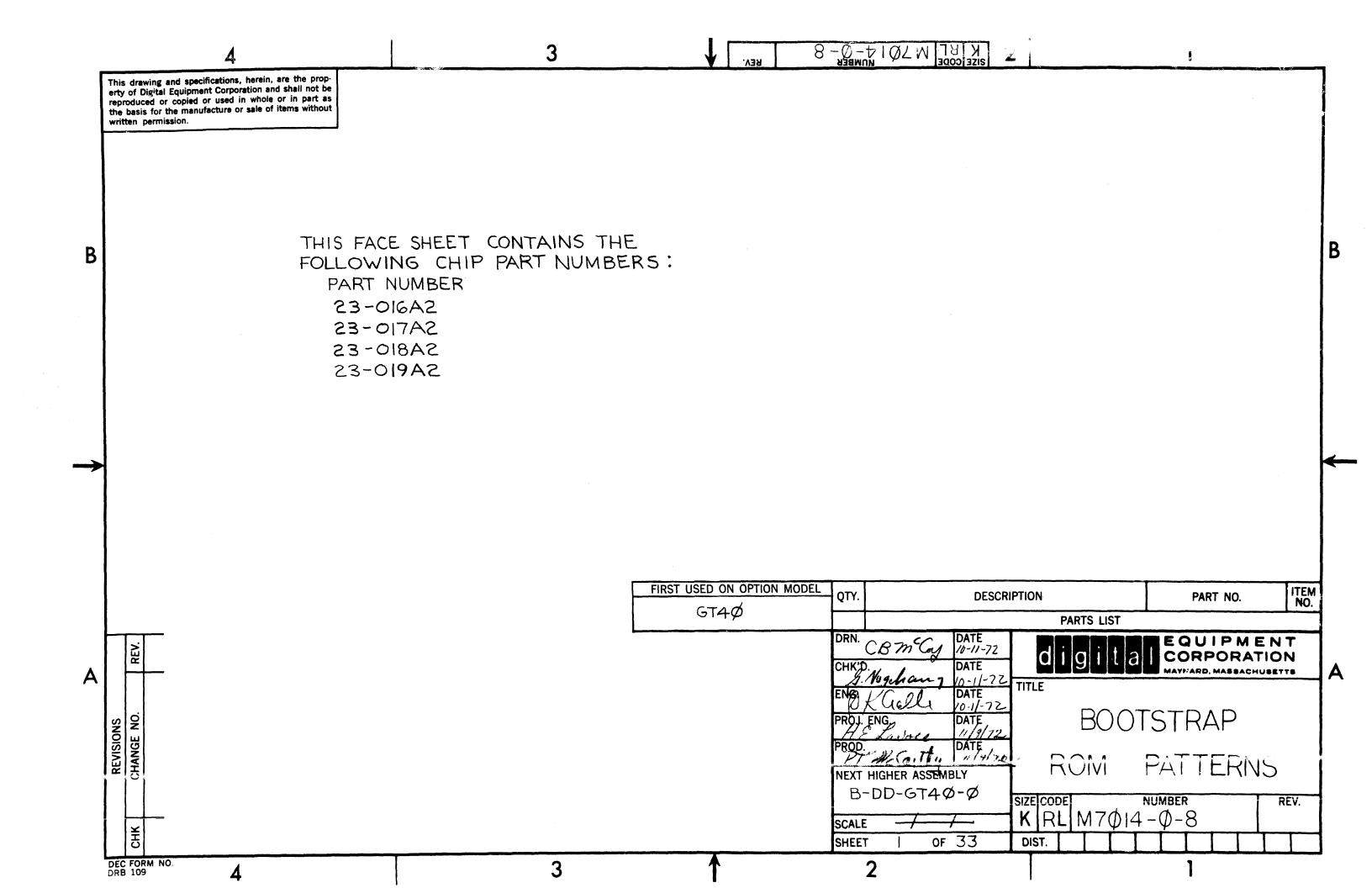












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ORIGINATOR: BRIAN O'DONNELL
DATE OF ORIGIN: 10-9-72

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8	010	2111	Ø7
9	011	2001	91
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11	013	Ø111	07
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DEC PART NUMB: 23-016A2 ORIGINATOR: BRIAN O'DONNELL DATE OF ORIGIN: 10-9-72

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ORIGINATOR: BRIAN O'DONNELL
DATE OF ORIGIN: 10-9-72

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DEC PART NUMB: 23=016A2
ORIGINATOR: BRIAN O'DONNELL
DATE OF ORIGIN: 10=9=72

PAGE 7 OF 33 ROM PATTERN SPEC

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ROM PATTERN SPEC

DEC PART NUMB: 23-016A2
ORIGINATOR: BRIAN O'DONNELL
DATE OF ORIGIN: 10-9-72

ROM PATTERN SPEC

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153	231	2001	01
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DEC PART NUAR: 23-017 DRIGINATOR: RRIAN DIN DATE UF ORIGIN: 10-10	ONNELL	SPEC	PAGE 17 OF 33
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252	374	1110	16
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	ROM PATTERN SPEC	PAGE 18 01	33
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ORIGINATOR: BRIAN O'DONNELL			

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ORIGINATOR: BRIAN O'DONNELL

DATE OF ORIGIN: 10=11=72

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106	152	1010	12
107	153	0101	05
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108	154	1111	17
	155	0011	03
	156	0101	05
	157	0000	00
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120 121 122 123	170 171 172 173	8888	02 00 03
124	174	0101	05
125	175	0000	00
126	176	0000	00
127	177	0011	03
131	201	1011	13
	202	1110	16
	203	0011	03
132	204 205 206	1011 1110 0000	13 16 00 15
136	210	1110	16
137	211		16
138	212		12
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	148	224	1001	11	
	149	225	1111	17	
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	151	227	1110	16	
	152	230	0010	02	
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	162	242	1111	17	
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DEC DARE NAME OF GARAGE	ROM	PATTERN	SPEC	PAGE 24 OF 33
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218	332		Ø Ø Ø Ø	00
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220	334		1111	17
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222	336		1001	11
223	337		1111	17
224	340		1011	13
225	341		0010	Ø2
226	342		0101	05
227	343		3000	00
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252 253 254 255	374 375 376 377		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0

	ROM	PATTERN	SPEC	PAGE	26 OF	33
DEC PART NUMBI 23-019A2 ORIGINATORI BRIAN O'DONNELL						
DATE OF ORIGIN: 10-11-72						

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DEC PART NUMB; 23-019A2 ORIGINATOR: BRIAN O'DONNEL DATE OF ORIGIN: 10-11-72		PATTERN	SFEC	PAGE 27 OF 33
DECIMAL	OCTAL		BINARY	OCTAL
Loc	LOC		DATA	DATA
36	044	•	0100	Ø 4
37	Ø45		0101	05
38	046		0031	01
39	047		1001	11
40	Ø5Ø		2000	00
41	051		ଜଉଉଷ	ØØ
42	Ø52		Ø Ø Ø1	01
4 3	Ø53		1000	10
4 4	054		1000	10
45	055		1111	17
46	056		0101	05
47	Ø5 7		0010	02
48	060		2000	00
49	061		ମଷ୍ଟଷ	00
50	062		1101	15
51	063		1070	10
52	064		1010	12
53	065		1111	17
54	066		0100	Ø 4
55	067		8000	ØØ
5 6	070		1100	14
57	Ø71		1100	14
58	072		1100	14
59	073		0100	Ø 4
60	074		1100	14
61	Ø75		Ø1ØØ	Ø 4
62	Ø76		1000	1ø
63	077		1000	10
64	100		1100	14
65	101		1100	14
66	102		1100	14
67	103		Ø1ØØ	Ø 4
68	104		1100	14
69	105		0100	Ø 4
70	106		1100	14
71	107		0100	Ø 4

		TERN SPEC	PAGE 28 OF 33
DEC PART NUMB: 23-019/ ORIGINATOR: BRIAN 010/ DATE OF ORIGIN: 10-11/	ONNELL		
DECIMAL	· -	D	Detai
LOC	OCTAL	BINARY	OCTAL Data
[00	Foc	DATA	DATA
72	110	1100	14
73	111	Ø10Ø	Ø 4
74	112	øøøø	Øø
75	113	1000	10
76	114	1000	1ø
77	115	0100	04
78	116	0100	04
79	117	0000	00
80	120	0000	Øø
81	4.0.4	8000	00
82	121	8888	00
83	123	1101	15
83	160	1101	*2
84	124	1000	10
85	125	ଉଷ୍ପର	Øø
86	126	0001	01
87	127	0011	Ø3
88	130	1111	17
89	131	1111	17
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91	133	0001	01
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92	134	0010	02
93	135	Ø11Ø	06
94	136	0001	01
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97	141	1000	1ø
98	142	1101	15
99	143	1100	1.4
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102	146	ØØii	0 3
103	147	1100	1.4
4 % 4	4 = 0	4444	17
104	150	1111	Ø2
105	151 152	ØØ1Ø	01
106		ØØØ1	14
107	153	1100	7.4

DEC PART NUMB: 23=019A2	ROM PATTERN	SPEC	PAGE 29 OF 33
ORIGINATOR: BRIAN O'DONNE! DATE OF ORIGIN: 10-11-72	"L		
DECIMAL	OCTAL	BINARY	OCTAL
LOC	Loc	DATA	DATA
1 Ø 8	154	1000	10
109	155	1111	17
110	156	1100	14
111	157	0111	07
112	160	ĩ 1 1 1	17
113	161	1100	14
114	162	0111	07
115	163	ଦଉଉଉ	ØØ
116	164	1000	10
117	165	0001	Ø 1
118	166	Ø101	Ø5
119	167	1001	11
120	170	0001	01
121	171	0100	Ø 4
122 123	172 173	0010 1000	02 10
123	1/3	1000	T Ø
124	174	1000	10
125	175	0001	Ø <u>1</u>
126 127	176 177	0111	Ø7 16
127	1//	1110	40
128	200	1000	10
129	201	1111	17
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132	204	1111	17
133	205	1000	10
134 135	206 207	0000 111 1	ØØ 17
	201	+11#	+ /
136	210	1110	16
137 138	211	0111	07 27
139	212 213	0011 1110	Ø3 16
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140	214	1111	17
141 142	215 216	0101	05 07
143	217	0000 1110	ØØ 16
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DECIMAL	OCTAL	BINARY	OCTAL
LOC	Loc	DATA	Data
144	220	2121	05
145	221	1111	17
146	222	2000	00
147	223	2100	04
148	224	1111	17
149	225	1101	15
150	226	1111	17
151	227	1100	14
152	230	1111	17
153	231	1011	13
154	232	0101	05
155	233	1111	17
156	234	0100	04
157	235	0000	00
158	236	1111	17
159	237	0100	04
160	240	1011	13
161	241	1111	17
162	242	4000	00
163	243	11011	13
164	244	1111	117
165	245	2000	100
166	246	2011	103
167	247	1000	10
168	250	0000	100
169	251	1100	114
170	252	0000	100
171	253	1100	114
172	254	1111	117
173	255	0000	10/0
174	256	1111	117
175	257	0011	103
176	260	11.100	344
177	261	11.11	347
178	1262	11.11	317
179	1263	10011	103

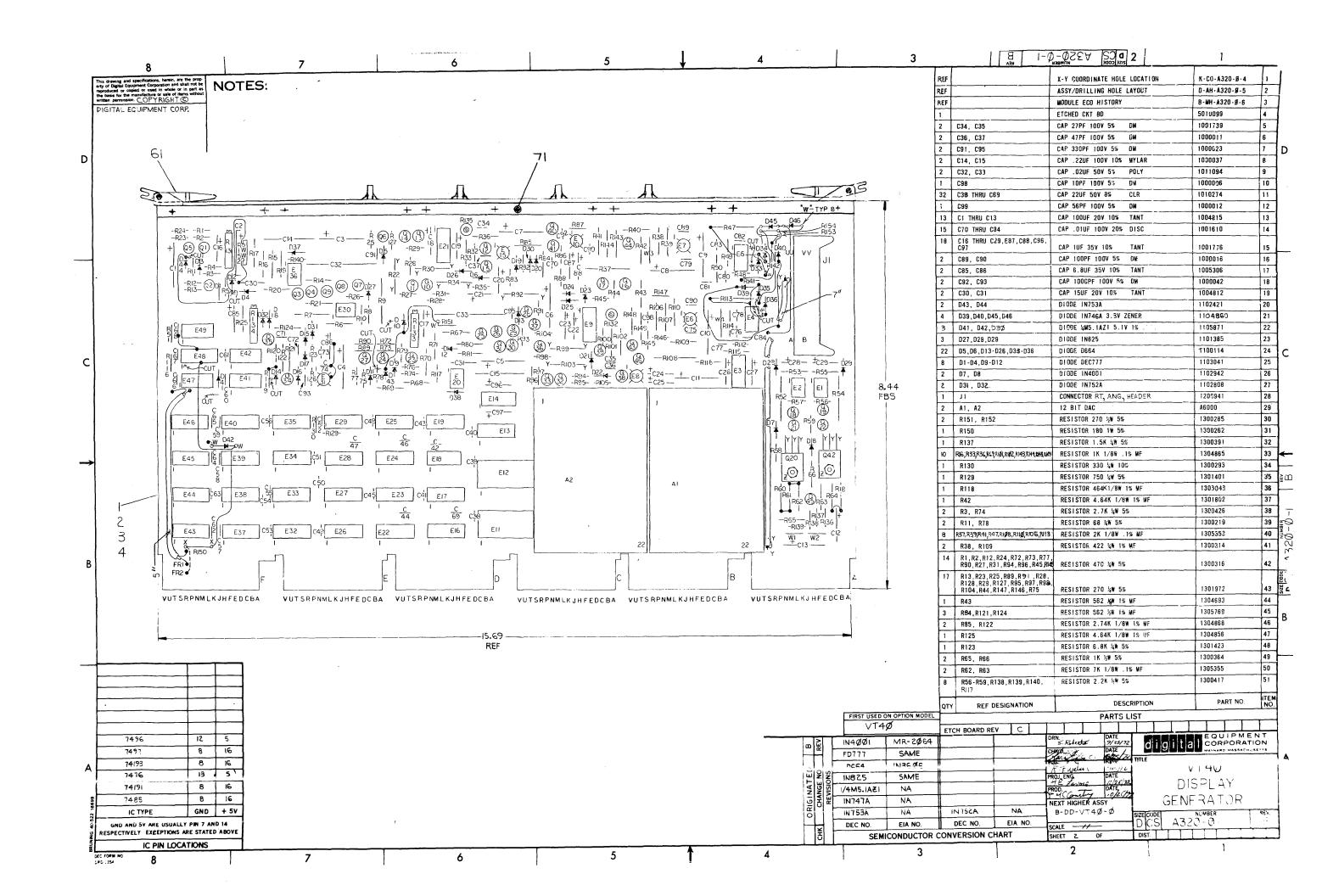
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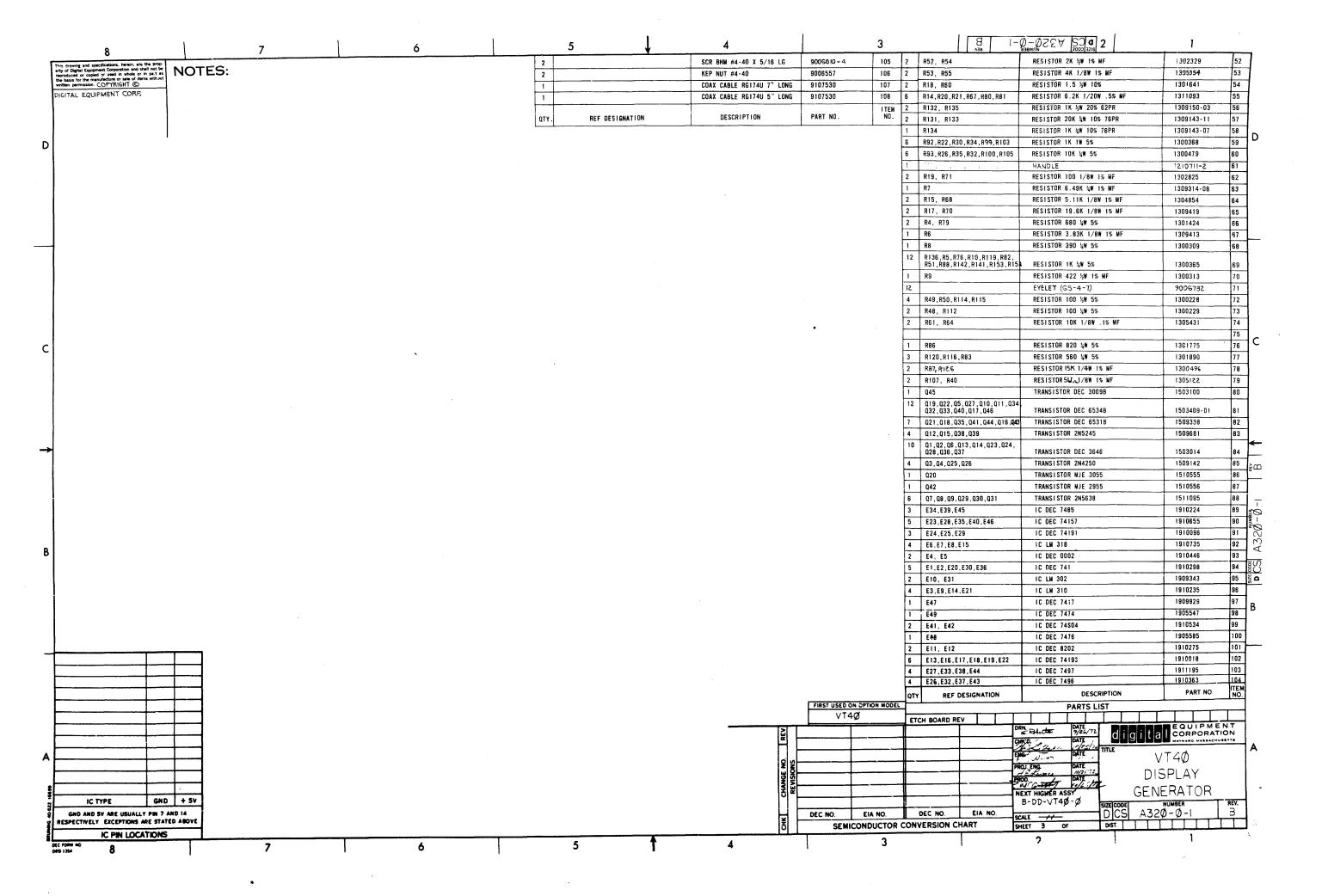
DEC PART NUMB: 23-019 00 ORIGINATOR: BRIAN 0'D 10-11 DATE OF ORIGIN: 10-11	ONNELL	ERN SPEC	PAGE 32 OF 33
DECIMAL	_OCTAL	BINARY	OCTAL
Loc	Loc	DATA	DATA
216	330	1100	14
217	331	1000	10
218	332	1000	10
219	333	1111	17
220	334	1110	16
221	335	0010	02
222	336	1111	17
223	337	1101	15
224	340	1100	14
225	341	1110	16
226	342	1100	14
227	343	0000	00
228	344	0000	00
229	345	1100	14
230	346	0100	04
231	347	1111	17
232	350	0000	00
233	351	0000	00
234	352	1111	17
235	353	0101	05
236	354	1111	17
237	355	0010	02
238	356	1111	17
239	357	0001	01
240	360	1111	17
241	361	0011	03
242	362	1010	12
243	363	0000	00
244	364	1100	14
245	365	1111	17
246	366	1000	10
247	367	1010	12
248	370	0101	05
249	371	0000	00
250	372	1111	17
251	373	0000	00

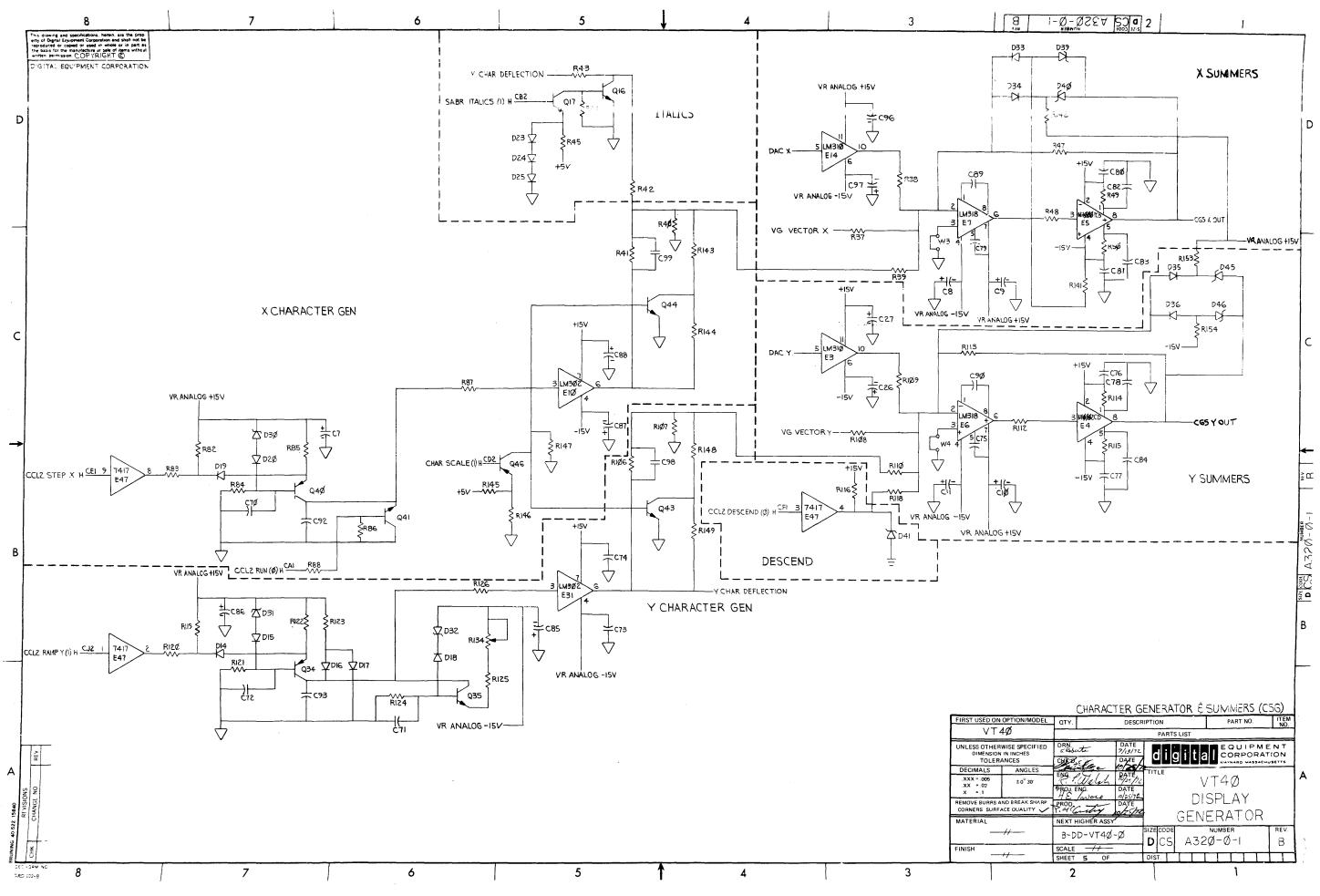
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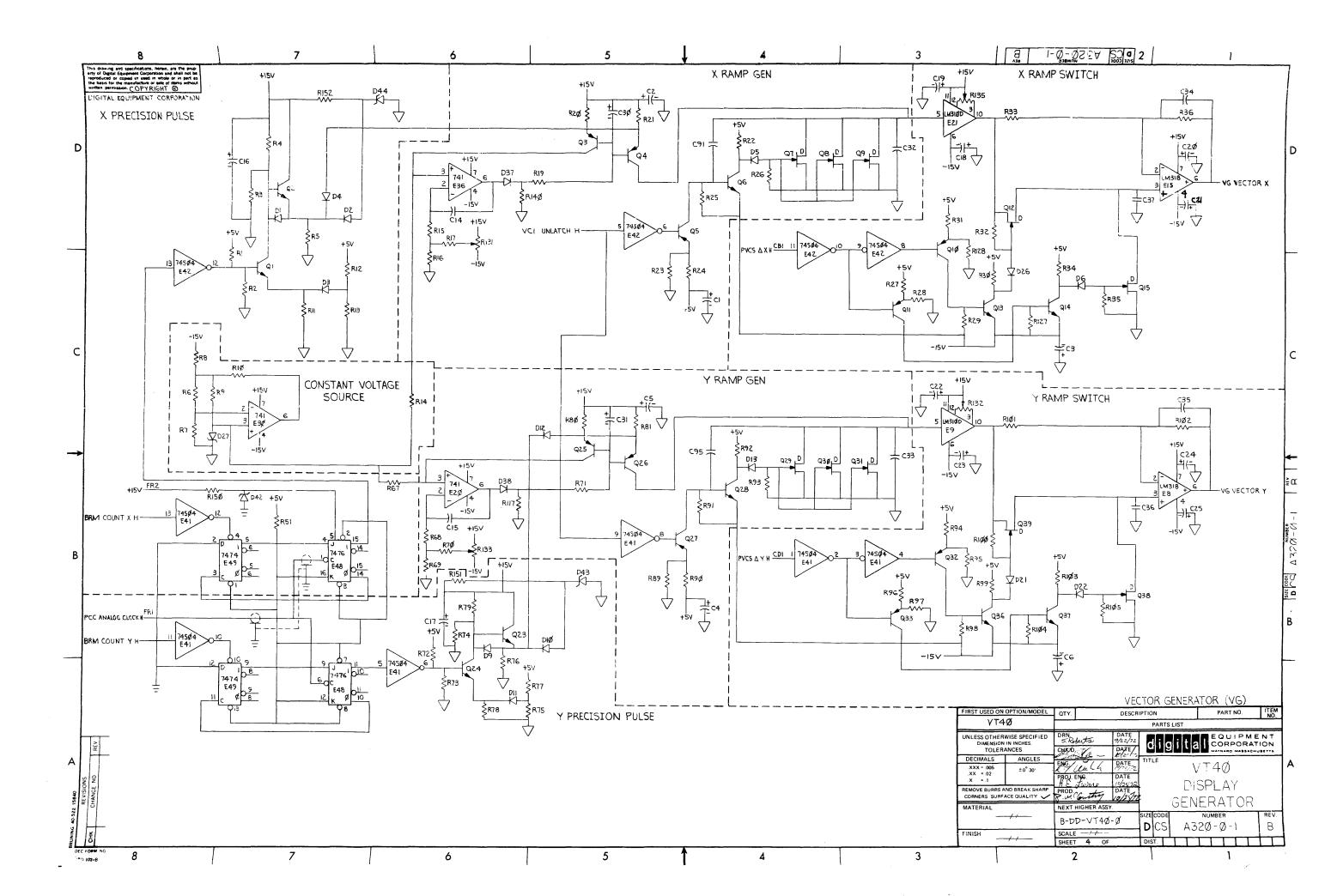
DEC PART NUMB: 23-01		TERN SPEC	PAGE 33 OF 33
ORIGINATOR: BRIAN OF DATE OF ORIGIN: 10-1	DONNELL		
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253	3.75	0001	Øį
254	376	0000	Øø
255	377	0000	ØØ

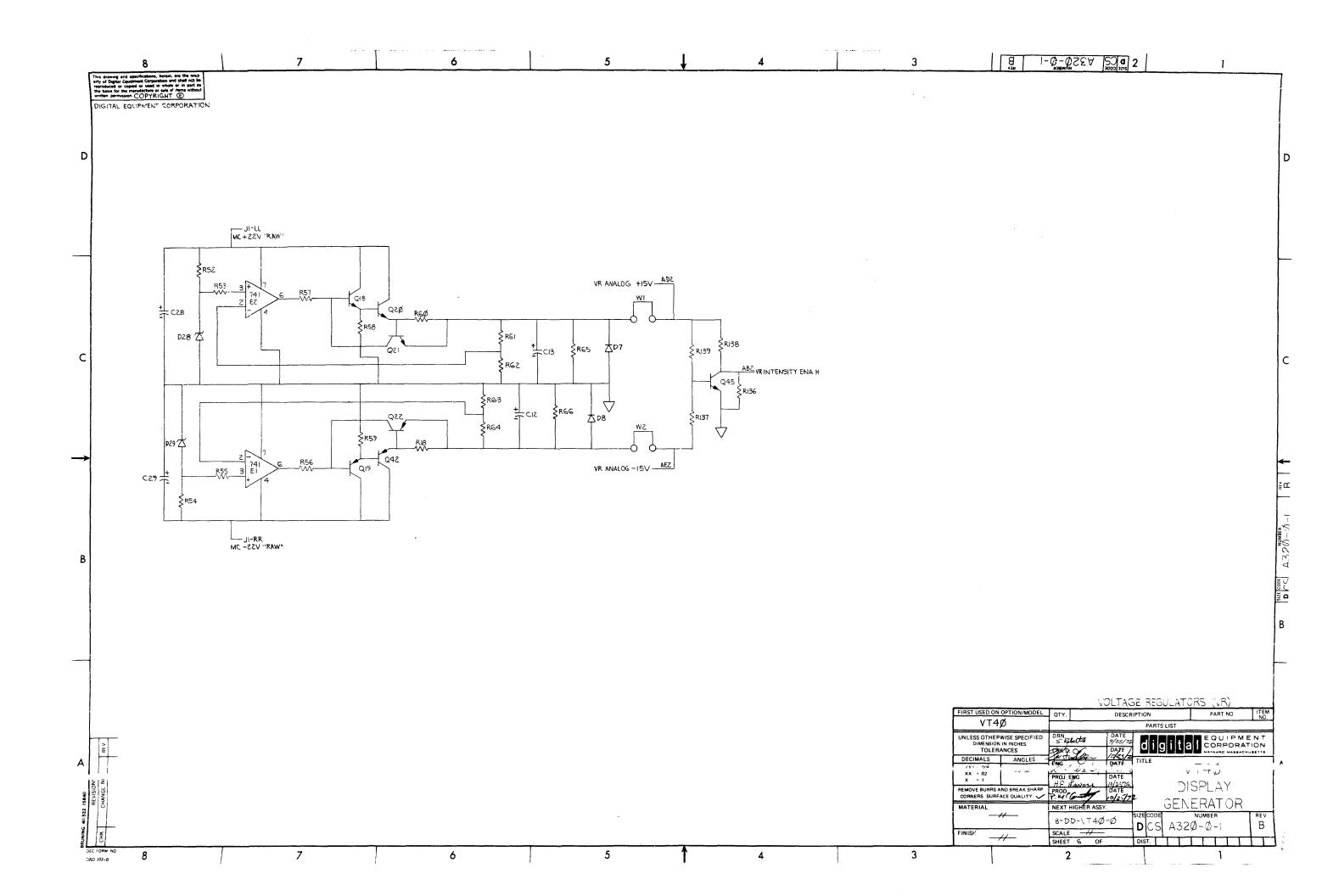
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7	BB				<u> </u>															(BRM) (MC)	
9	В																			(DCR)	
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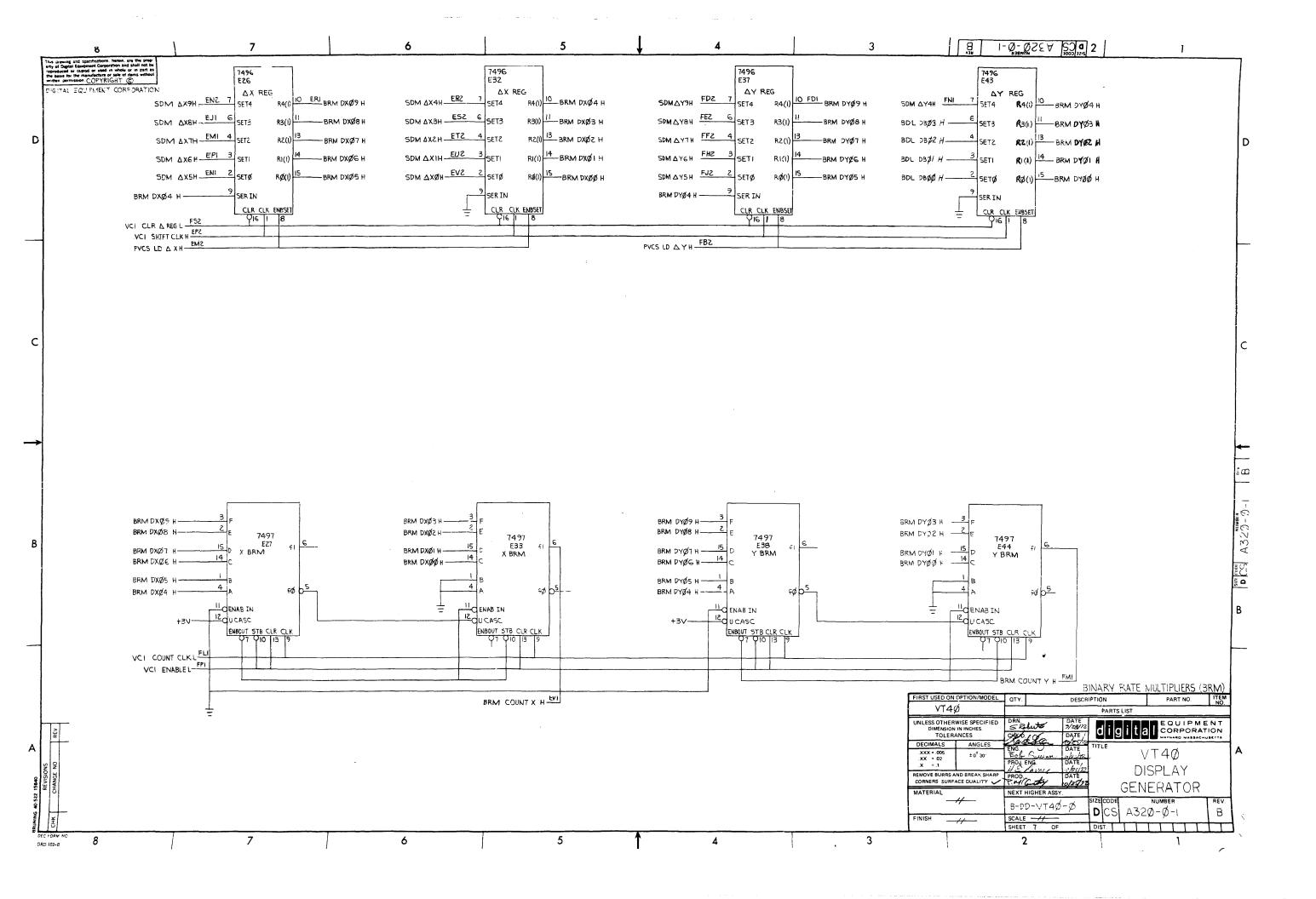


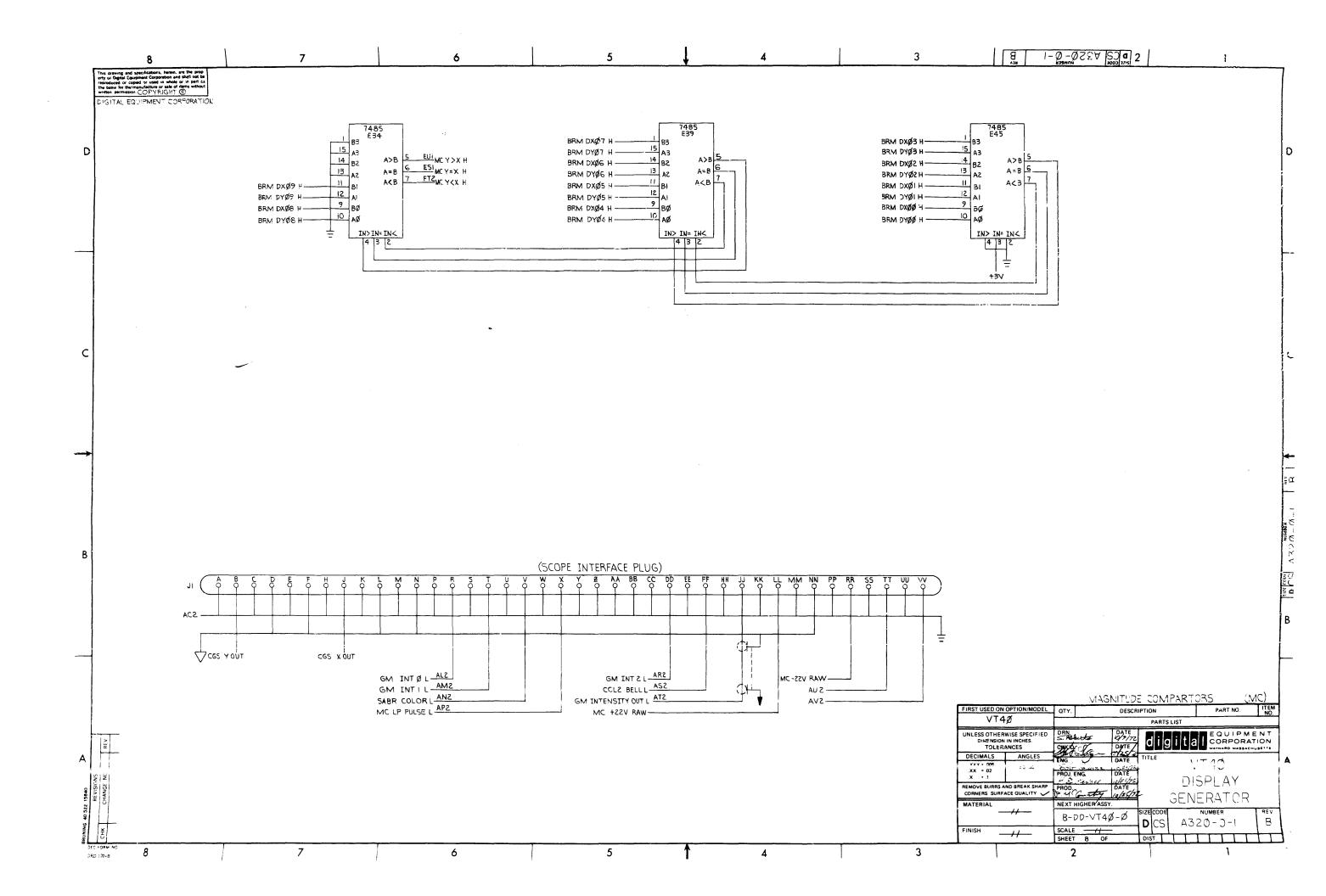


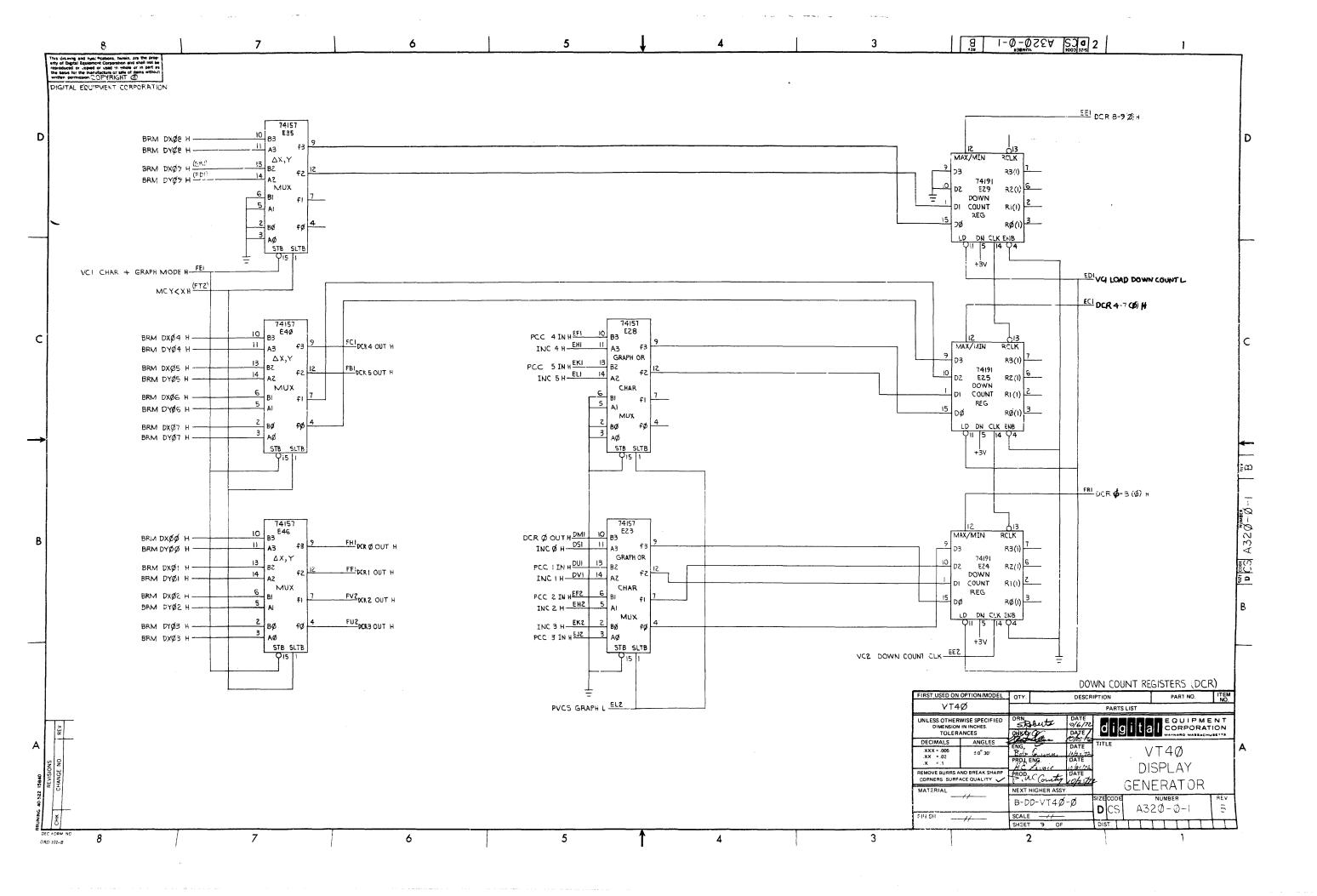


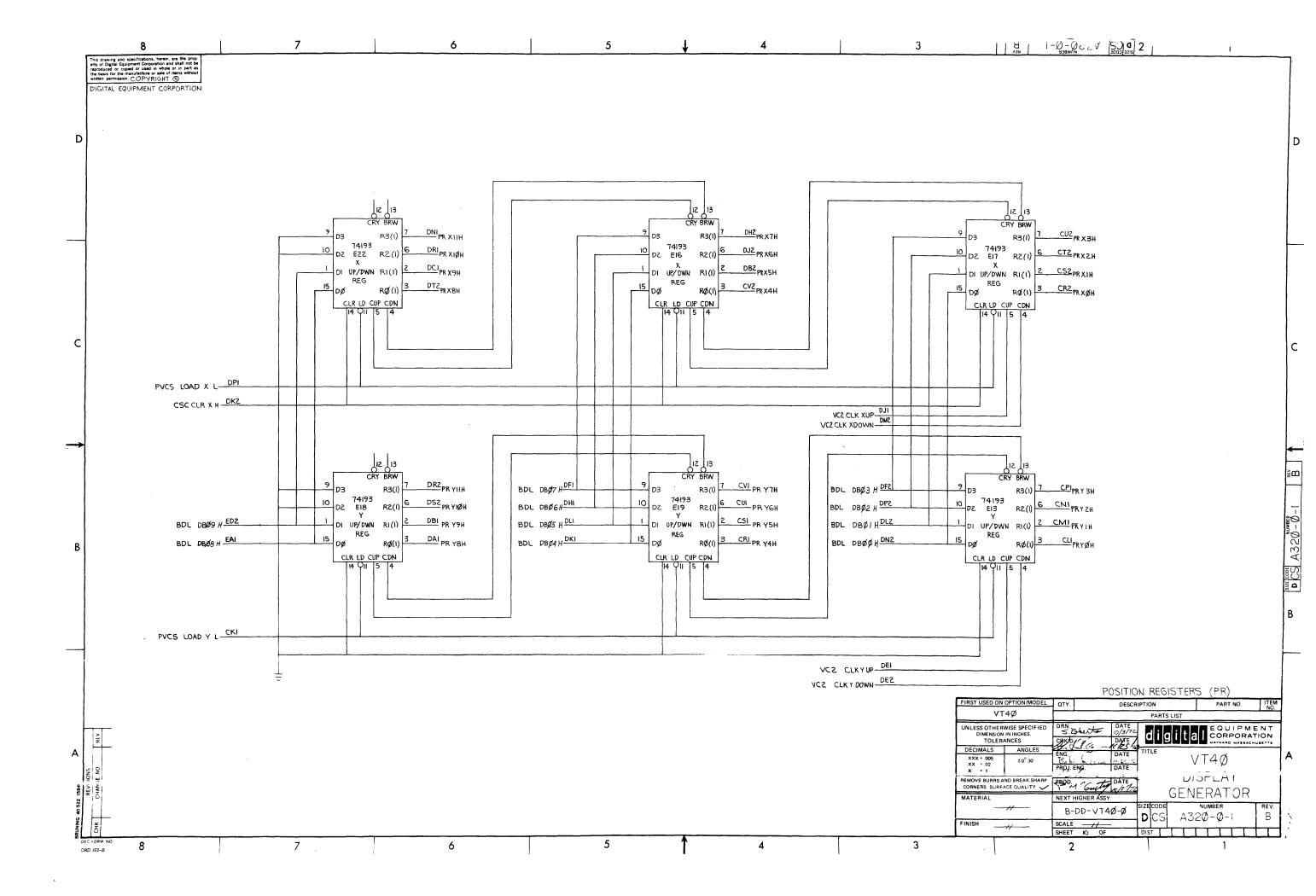


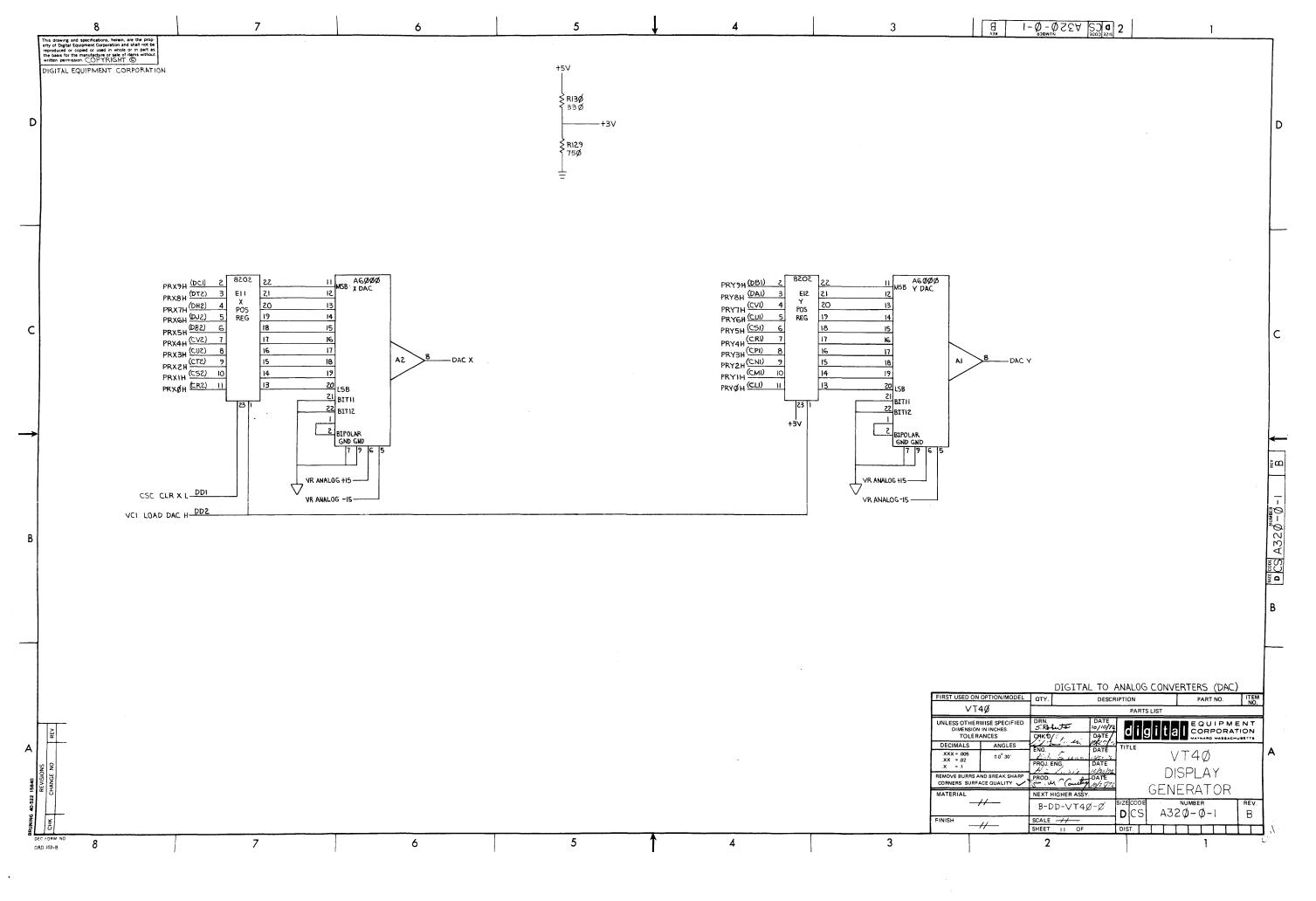








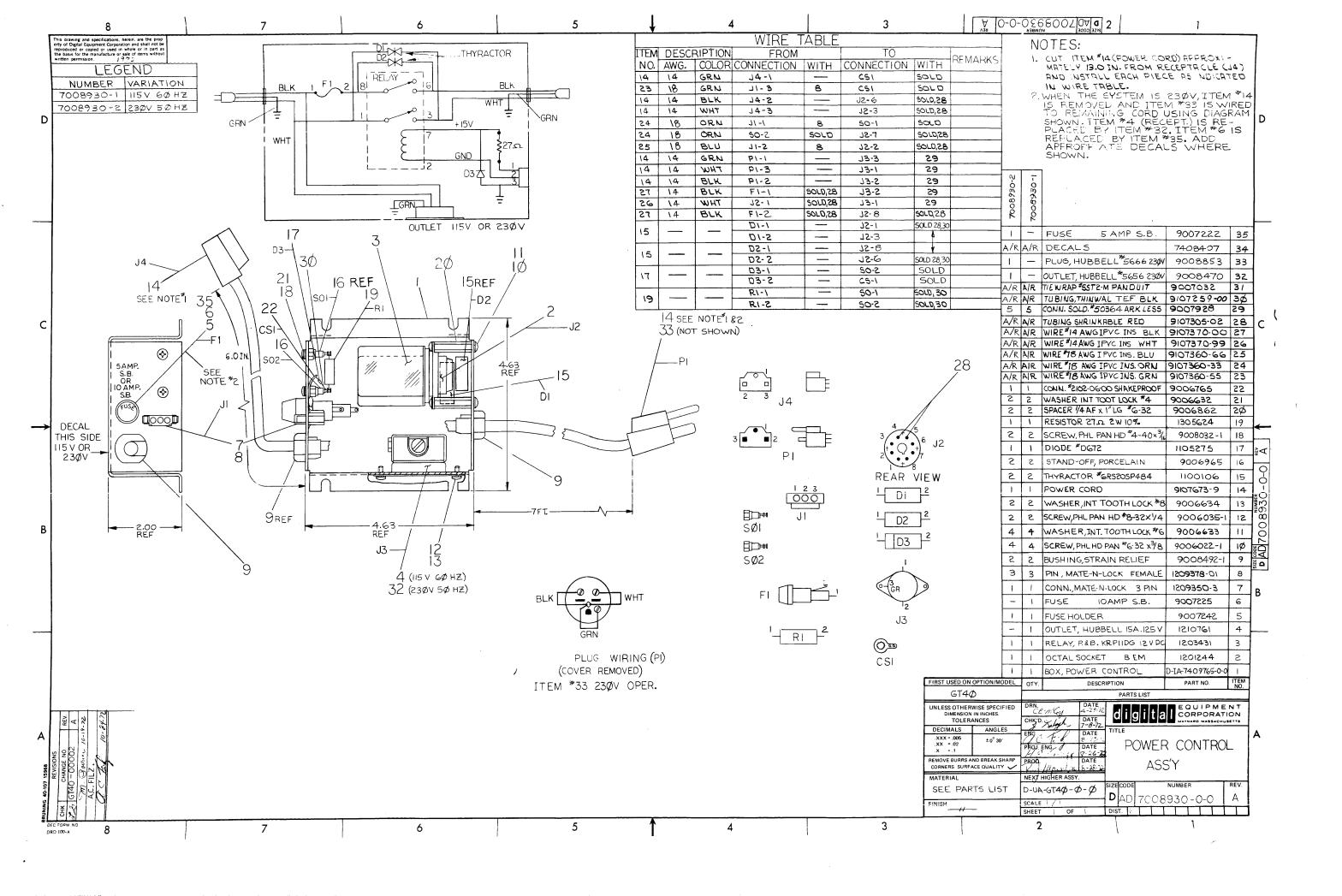


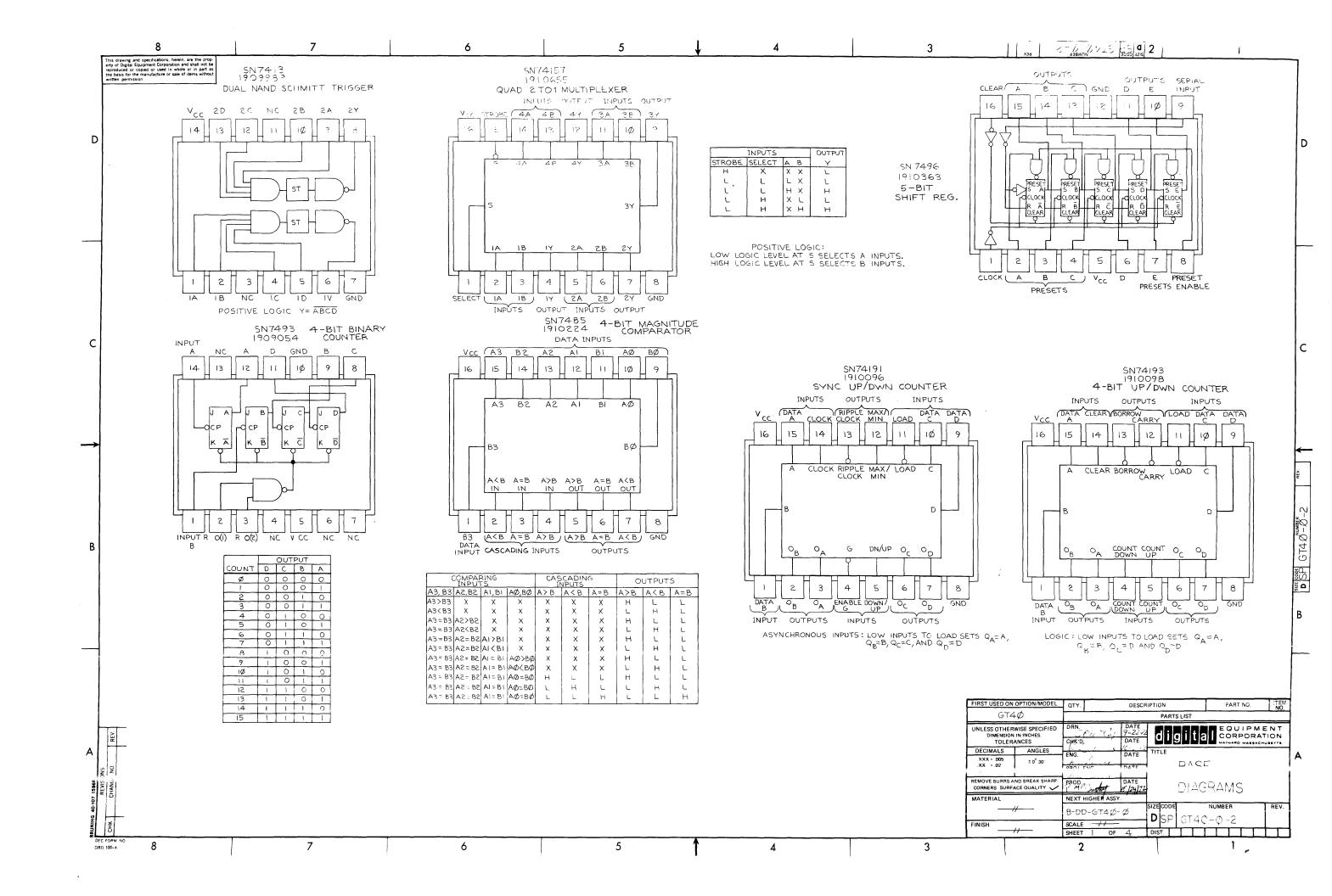


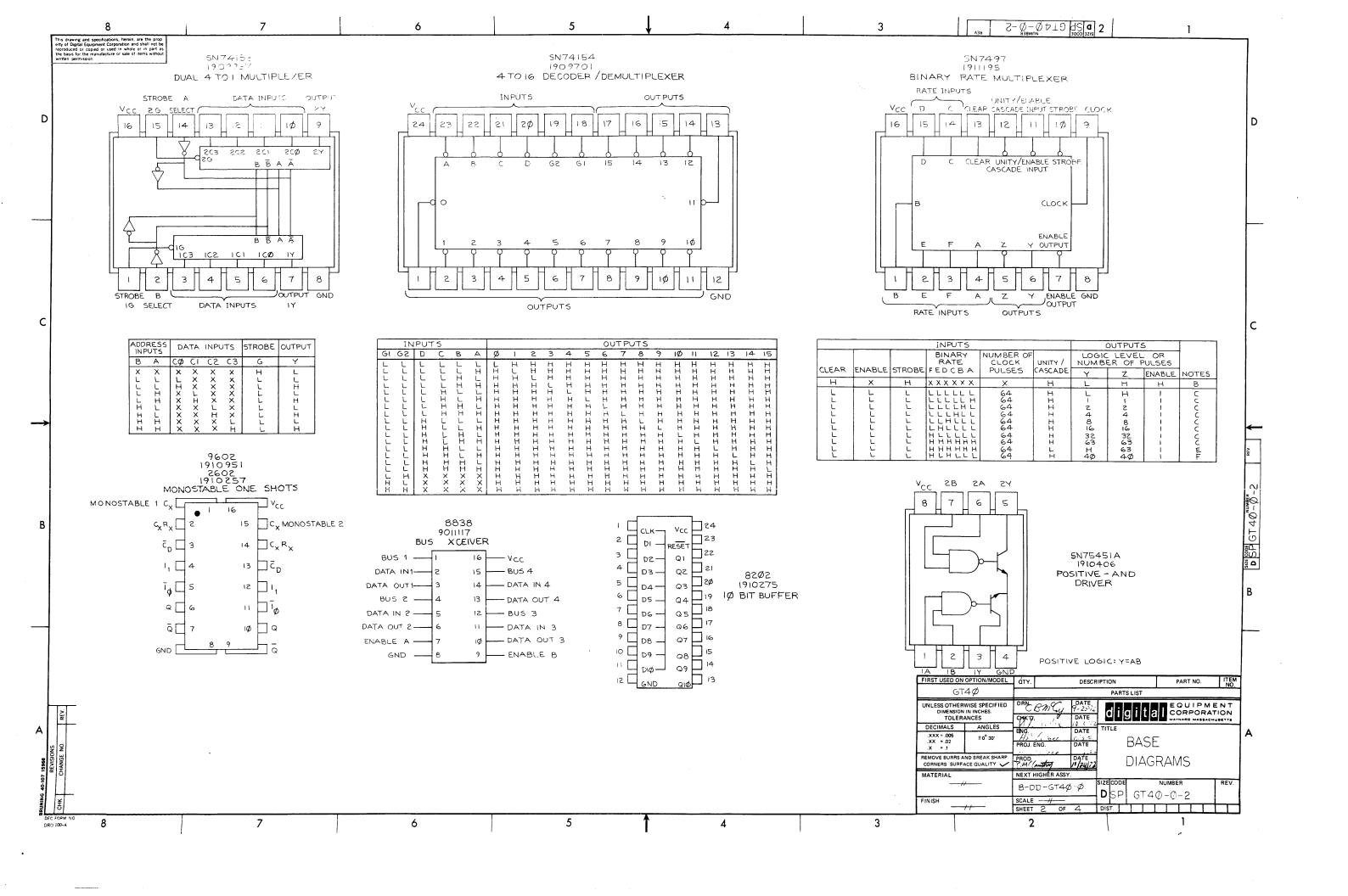
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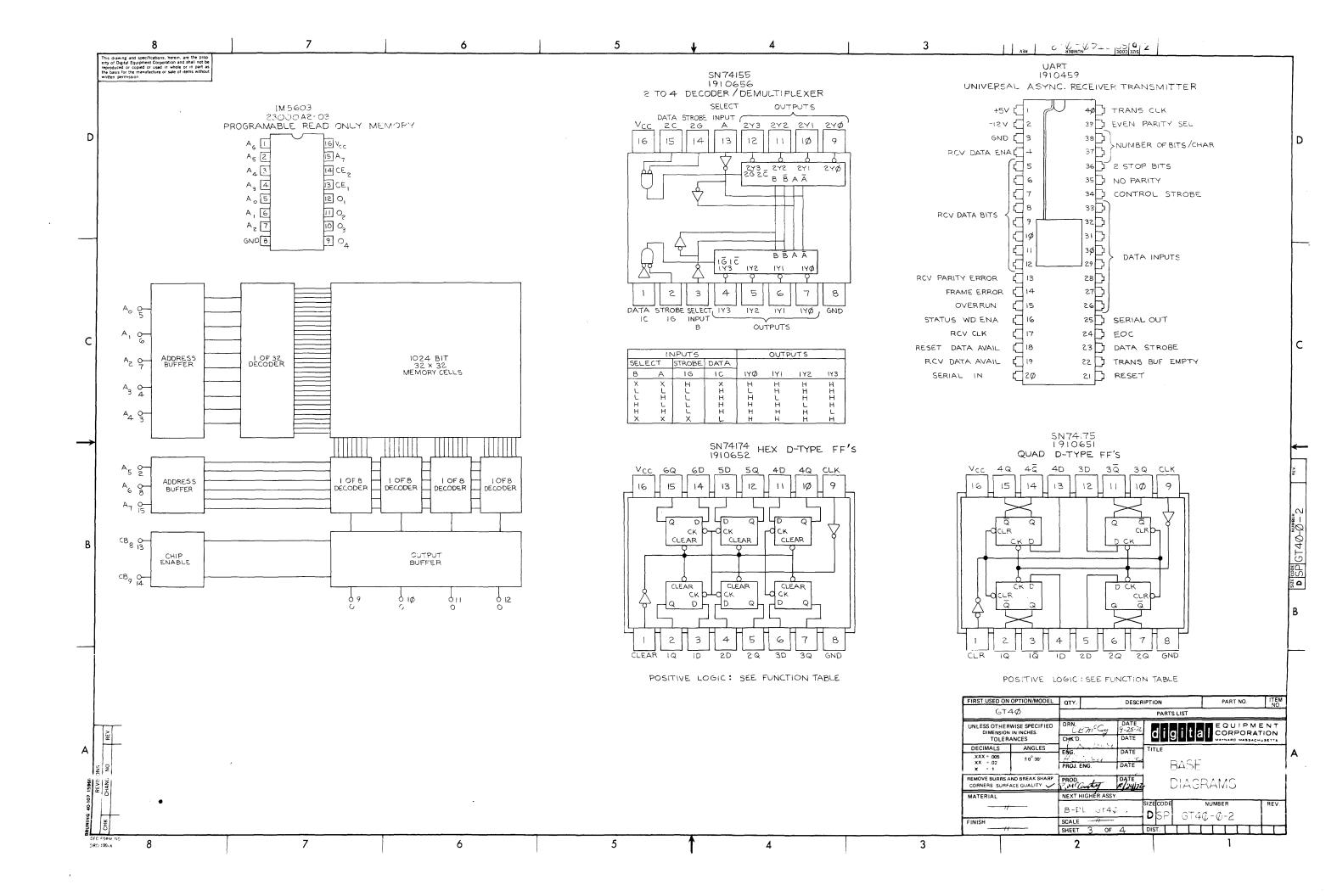
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NO.	DWG NO. / PART NO.	DESCRIPTIO	DESCRIPTION														
1	D-UA-11Ø5-MA-Ø	16 BIT COMPUTER ASSY (PDI	P11Ø5) 115V	1-	_	1_											
2	D-UA-11Ø5-MB-Ø	16 BIT COMPUTER ASSY (PDI	P11Ø5) 230V	1-	_	<u> </u>	1										
3	D-UA-11Ø5-PA-Ø	16 BIT COMPUTER ASSY (PDI	P11Ø5) 115V	1	_												
4	D-UA-11Ø5-PB-Ø	16 BIT COMPUTER ASSY (PDI	16 BIT COMPUTER ASSY (PDP11Ø5) 23ØV														
5	D-IA-7409966-0-0	COVER PANEL, REAR BOTTOM	COVER PANEL, REAR BOTTOM														
6	9009019-3	SCREW, PHL TRUSS HD #10-3	4	4	4	4											
7	D-MD-7409971-1-0	EXTRUSION, SIDE (L.H.)	1	1	1	1											
8	D-MD-7409971-2-0	EXTRUSION, SIDE (R.H.)][1	1	1	1											
9	9009266	WASHER, FINISHING	4	4	4	4											
10	9006035-2	SCREW, PHL FLT HD #8-32	k .25 L G	4	4	4	4										
11	C-CS-M7Ø13-Ø-1	BUS CONTROL		1	1	1	1										
12	C-CS-M7Ø14-Ø-1	DISPLAY CONTROL][1	1	1	1							L_			
13	C-CS-A32Ø-Ø-1	VECTOR GENERATOR		11	1	1_	1							_			
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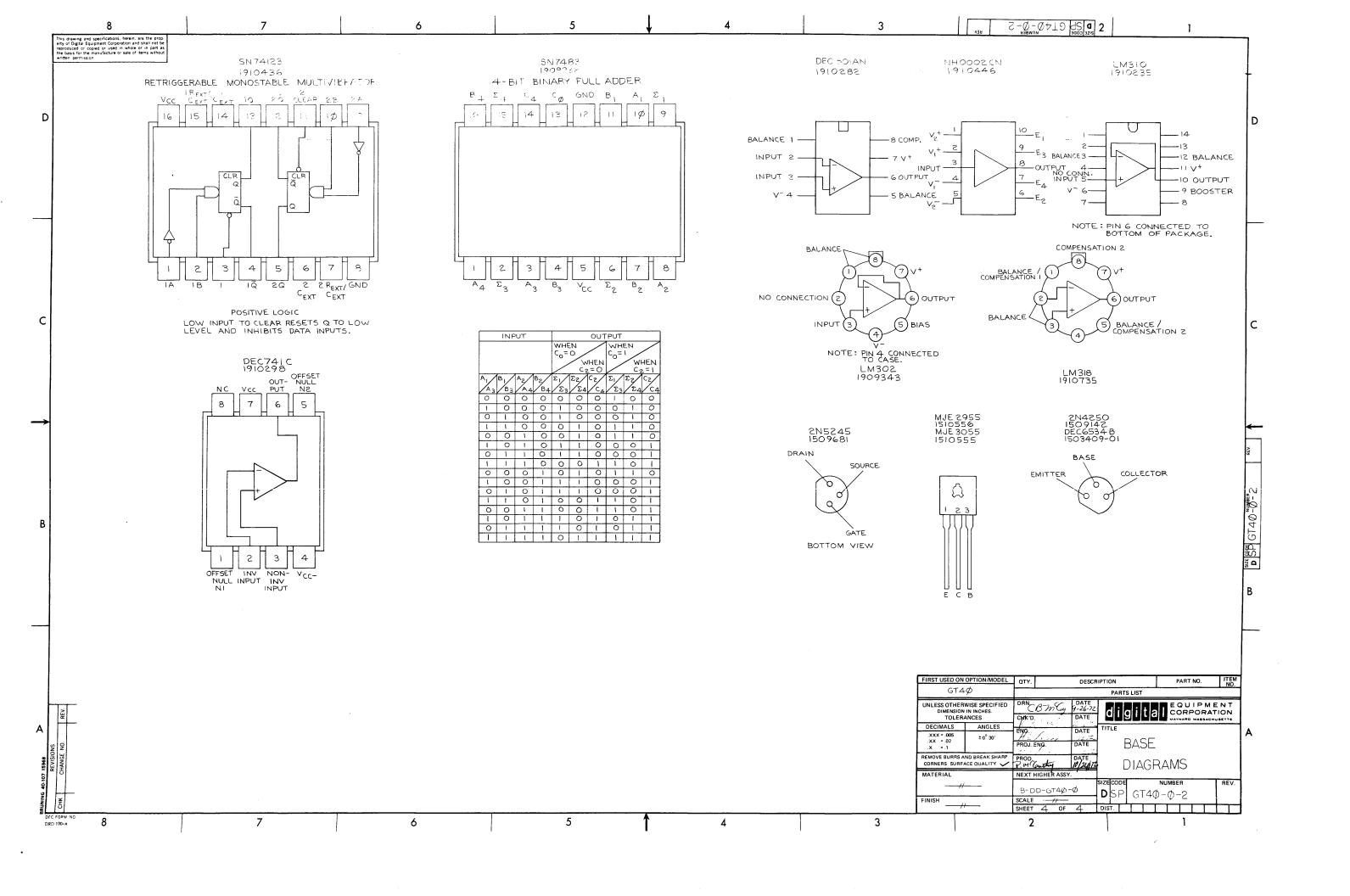
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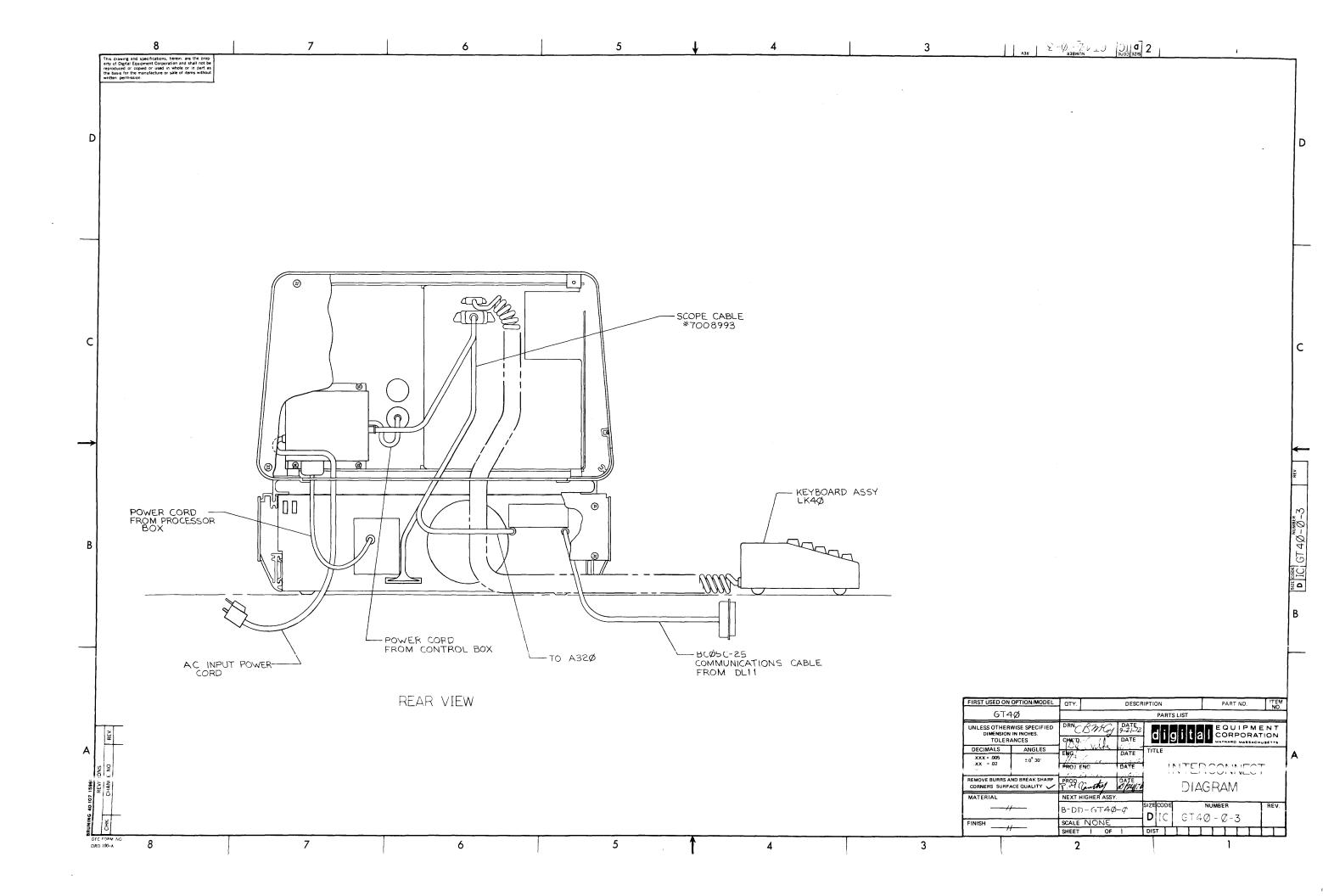


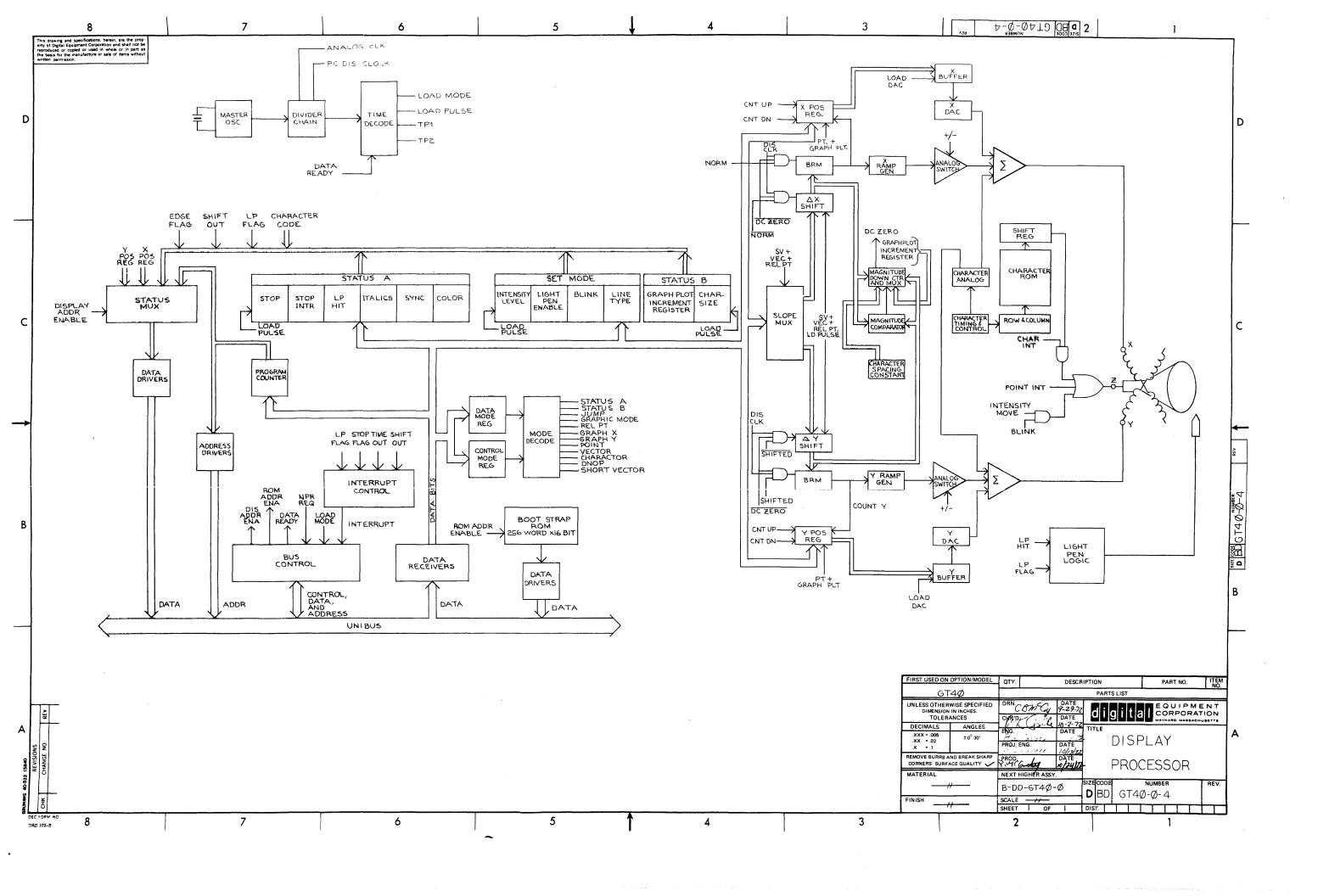


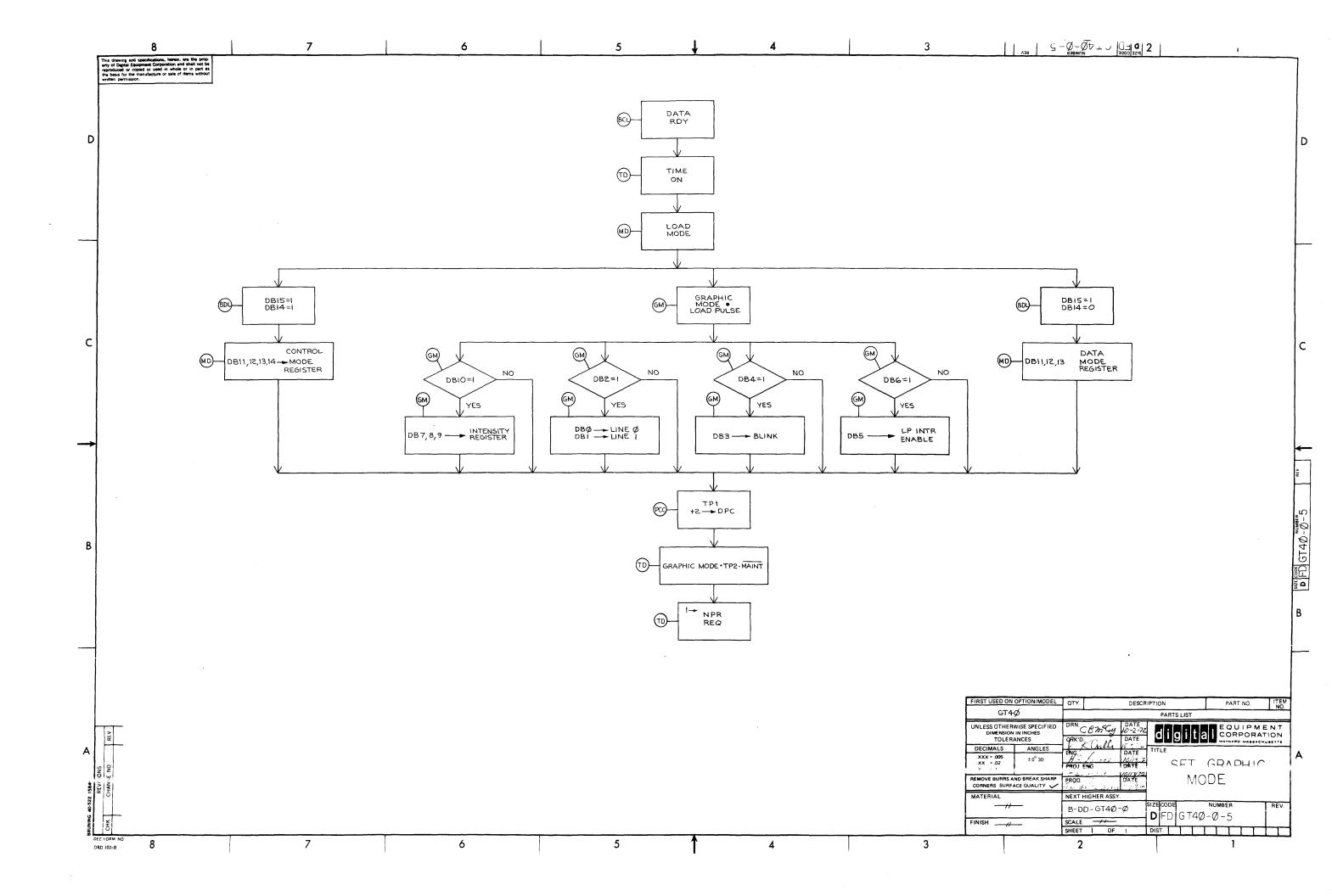


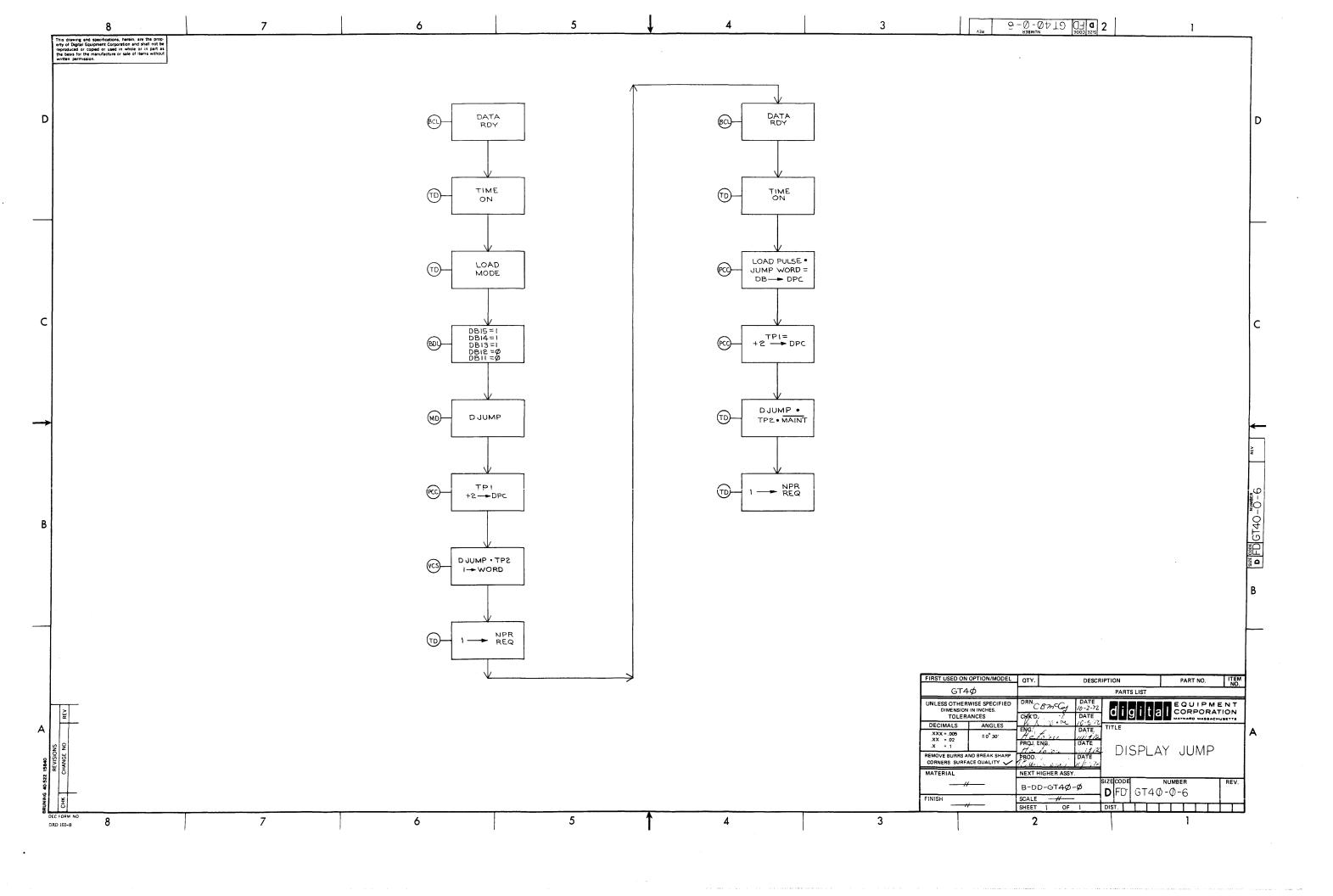


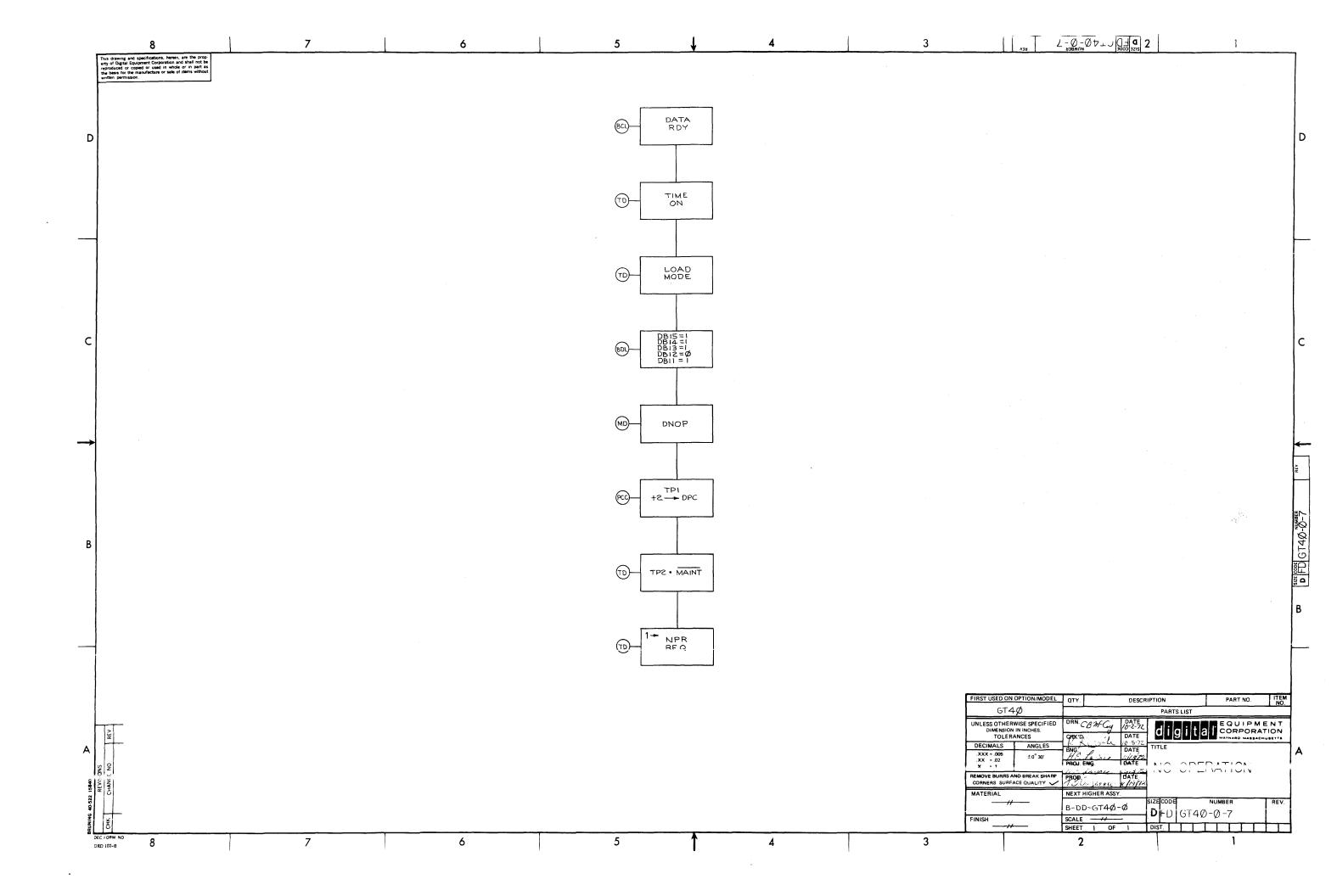


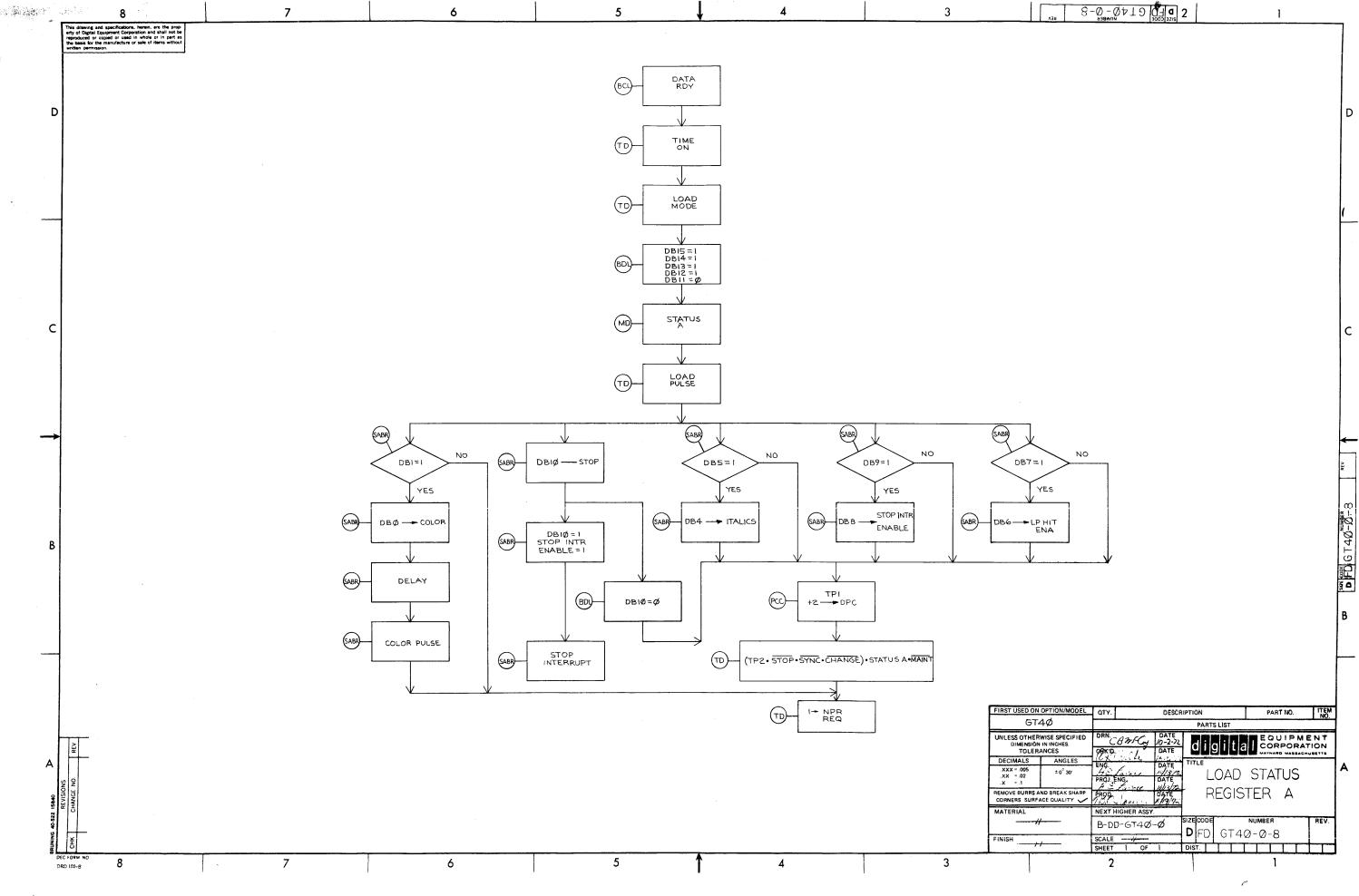


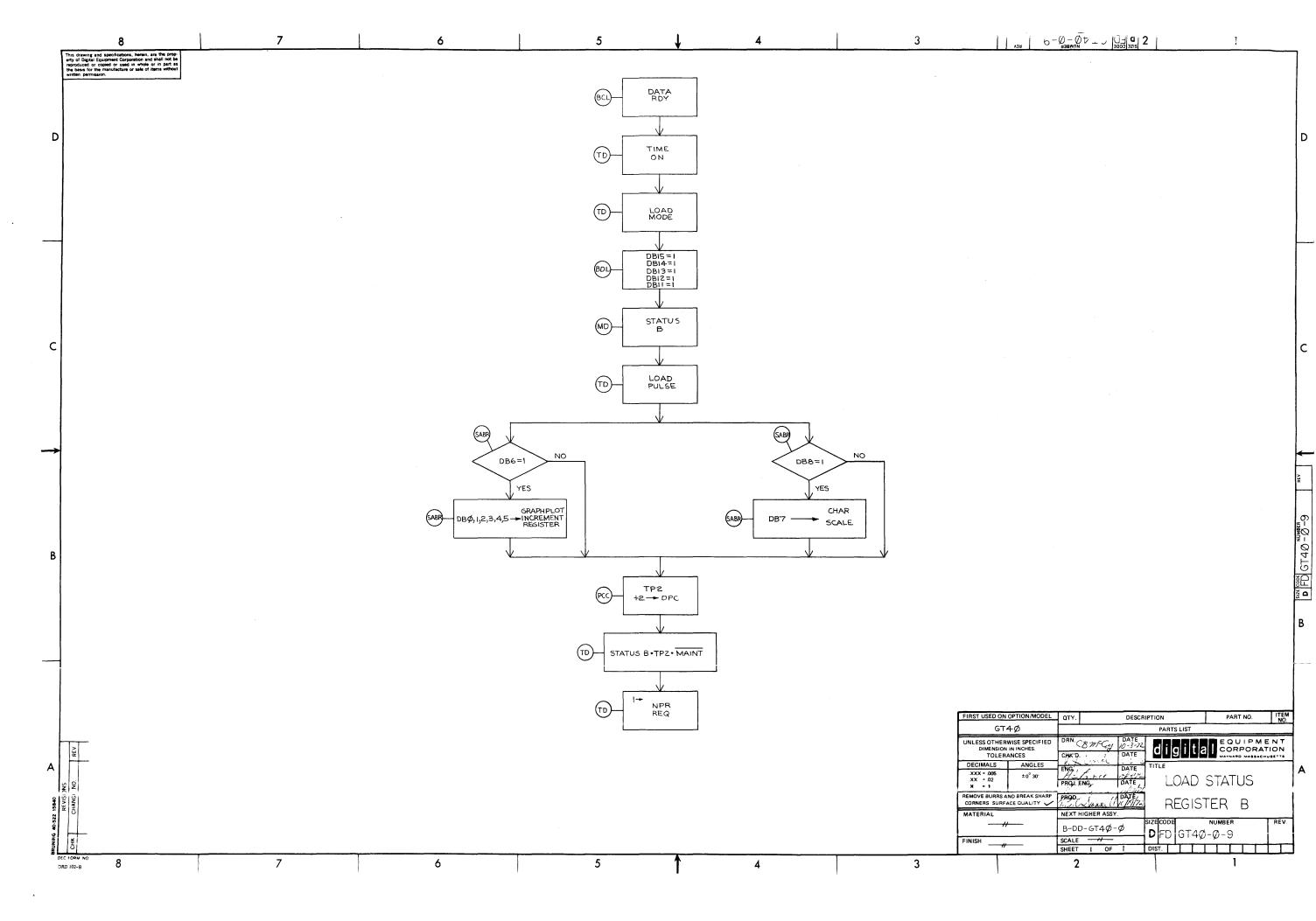


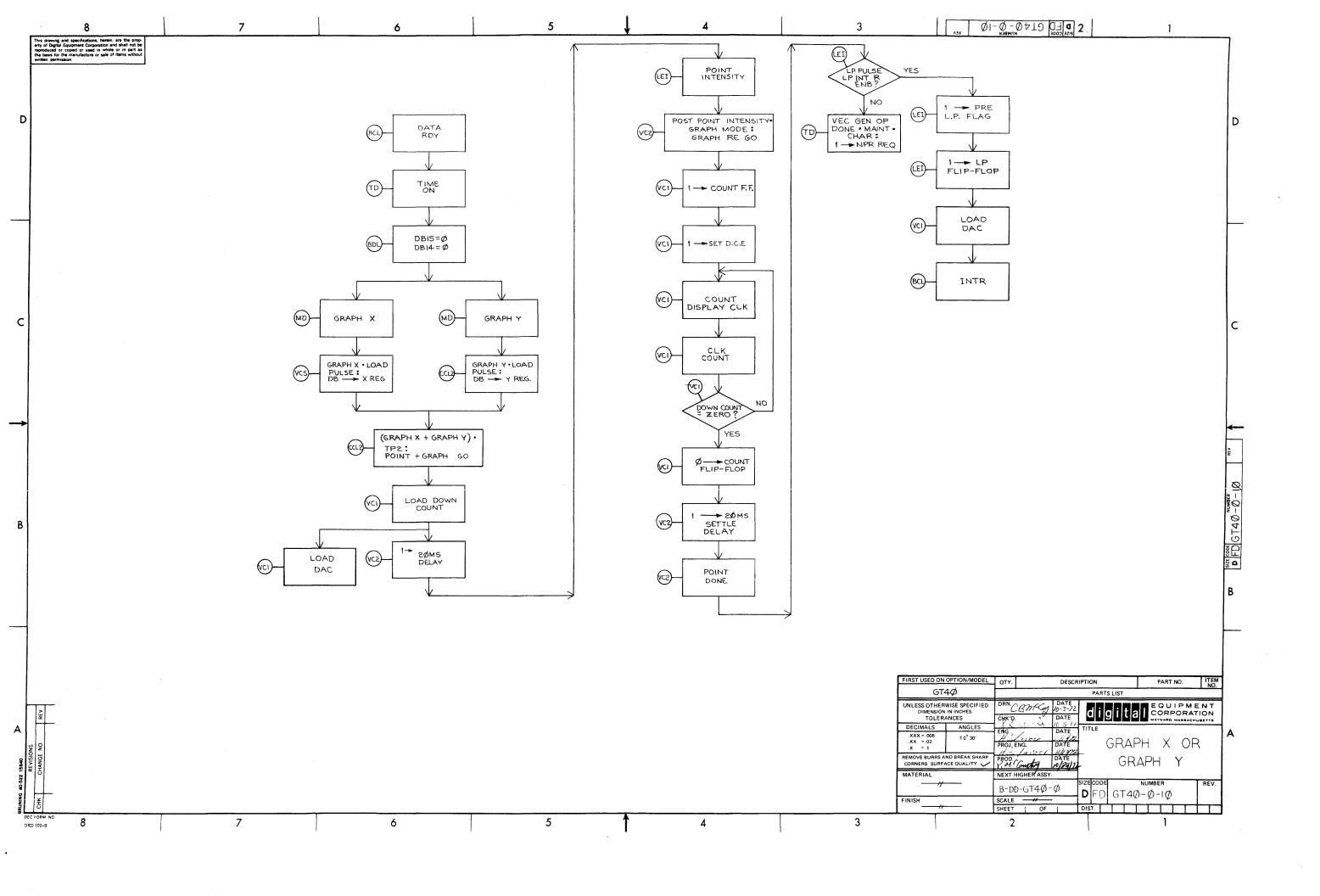


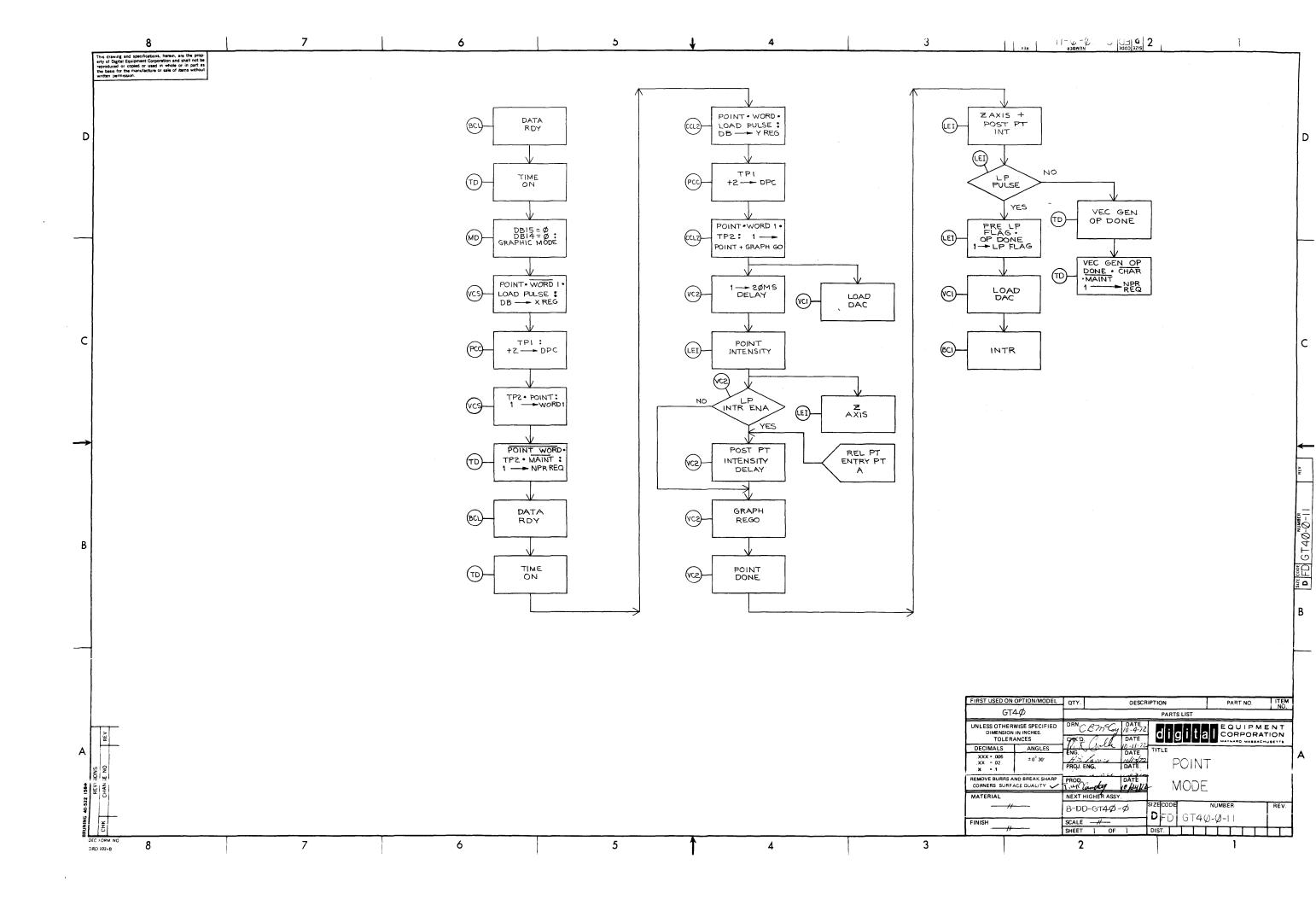


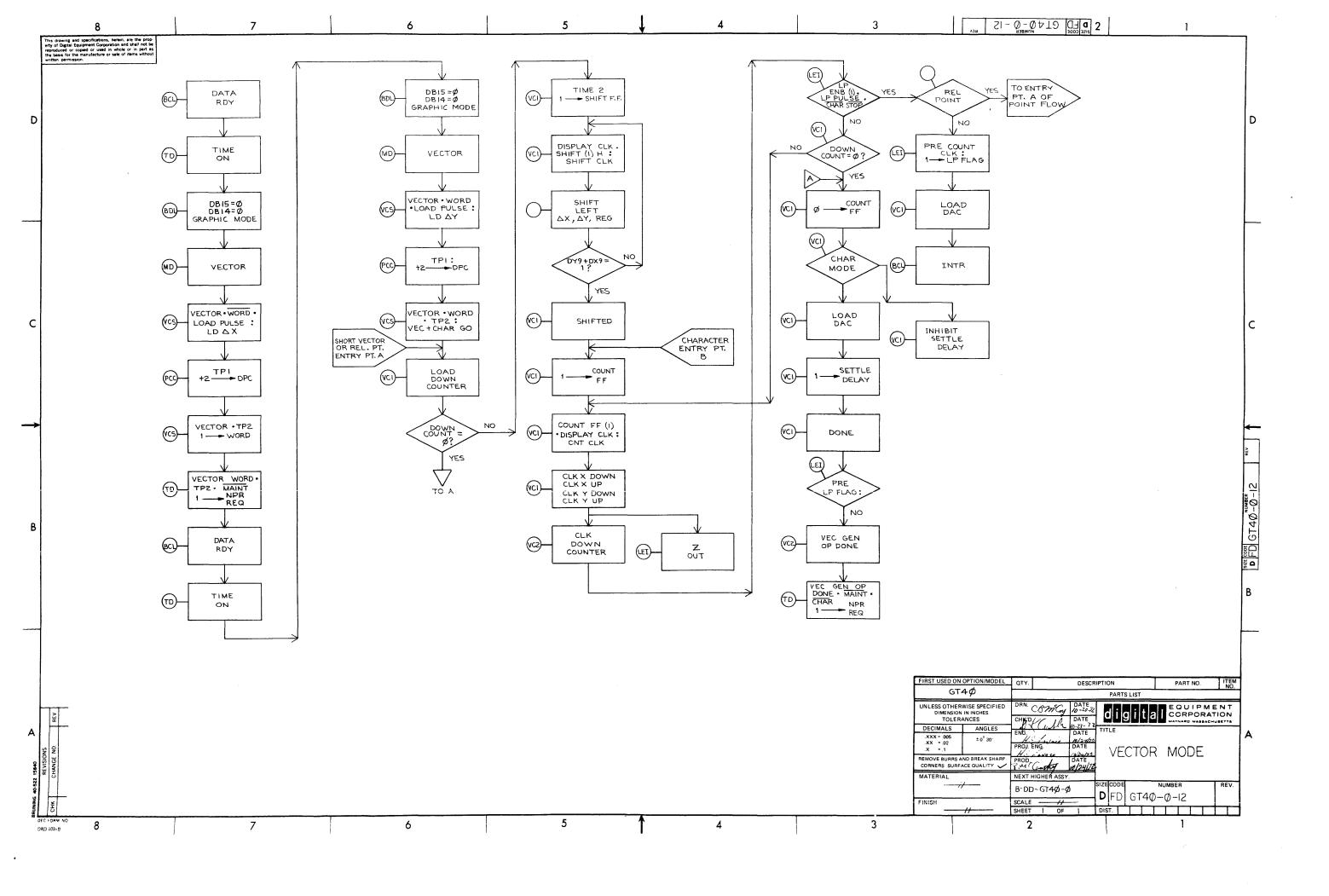


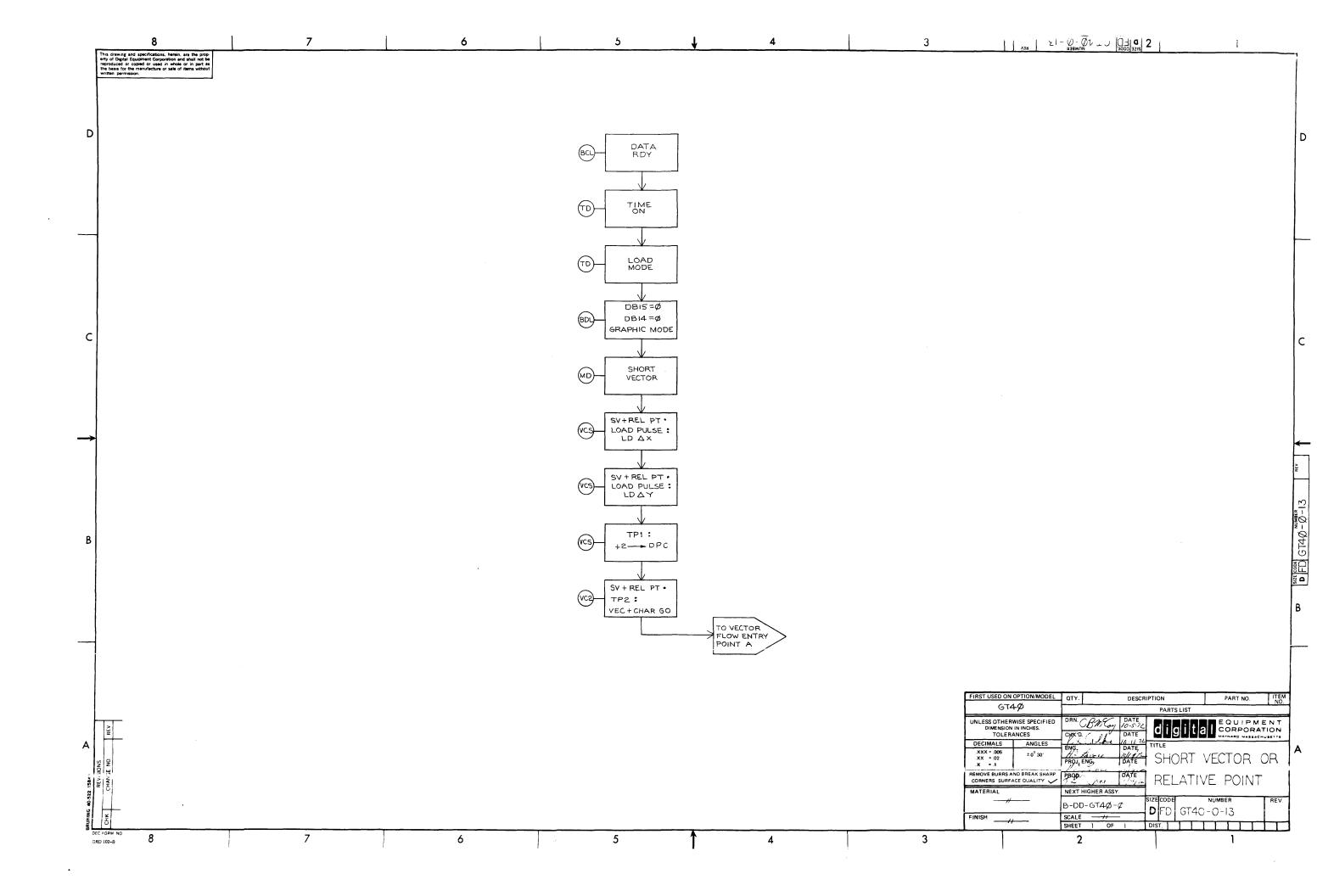


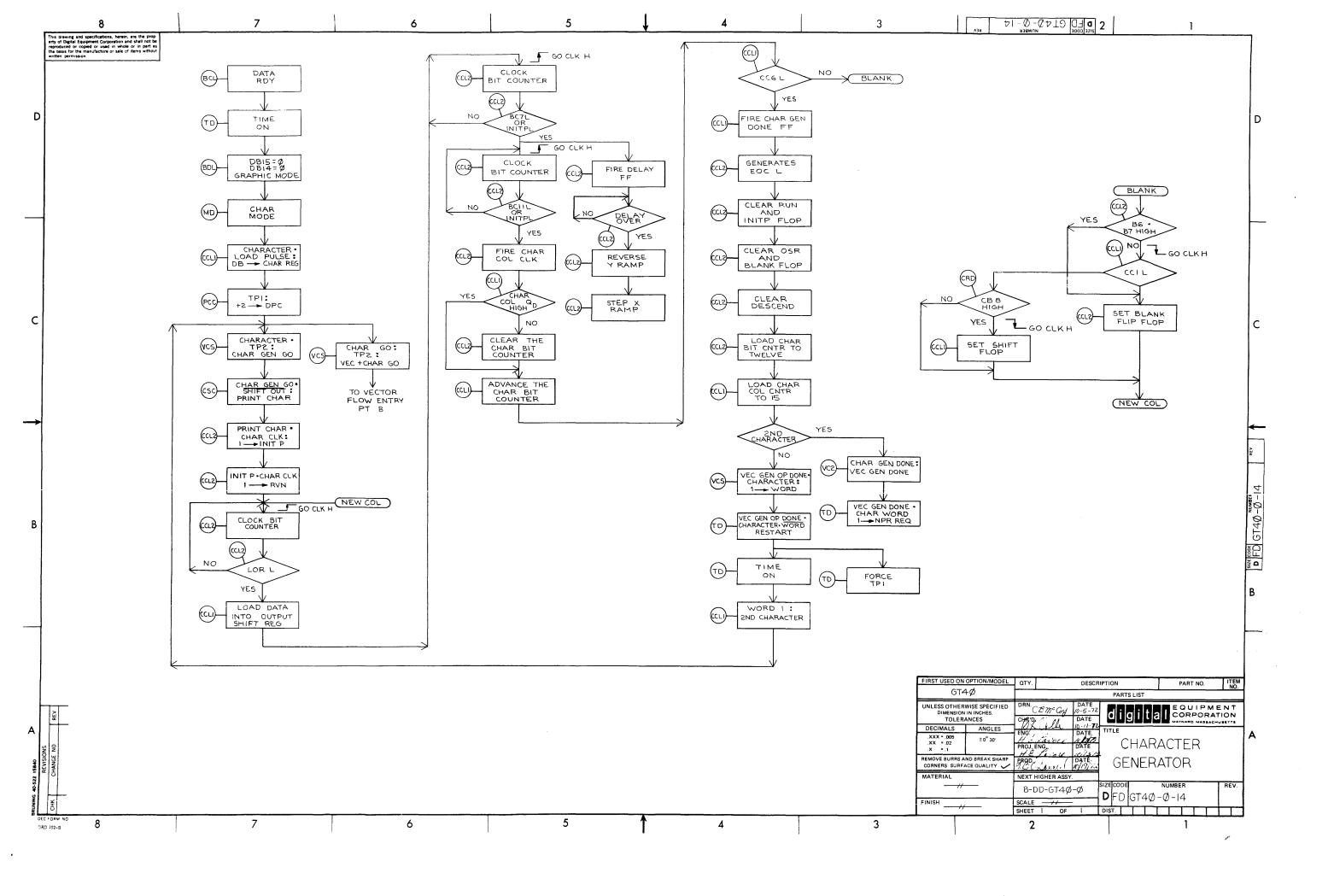


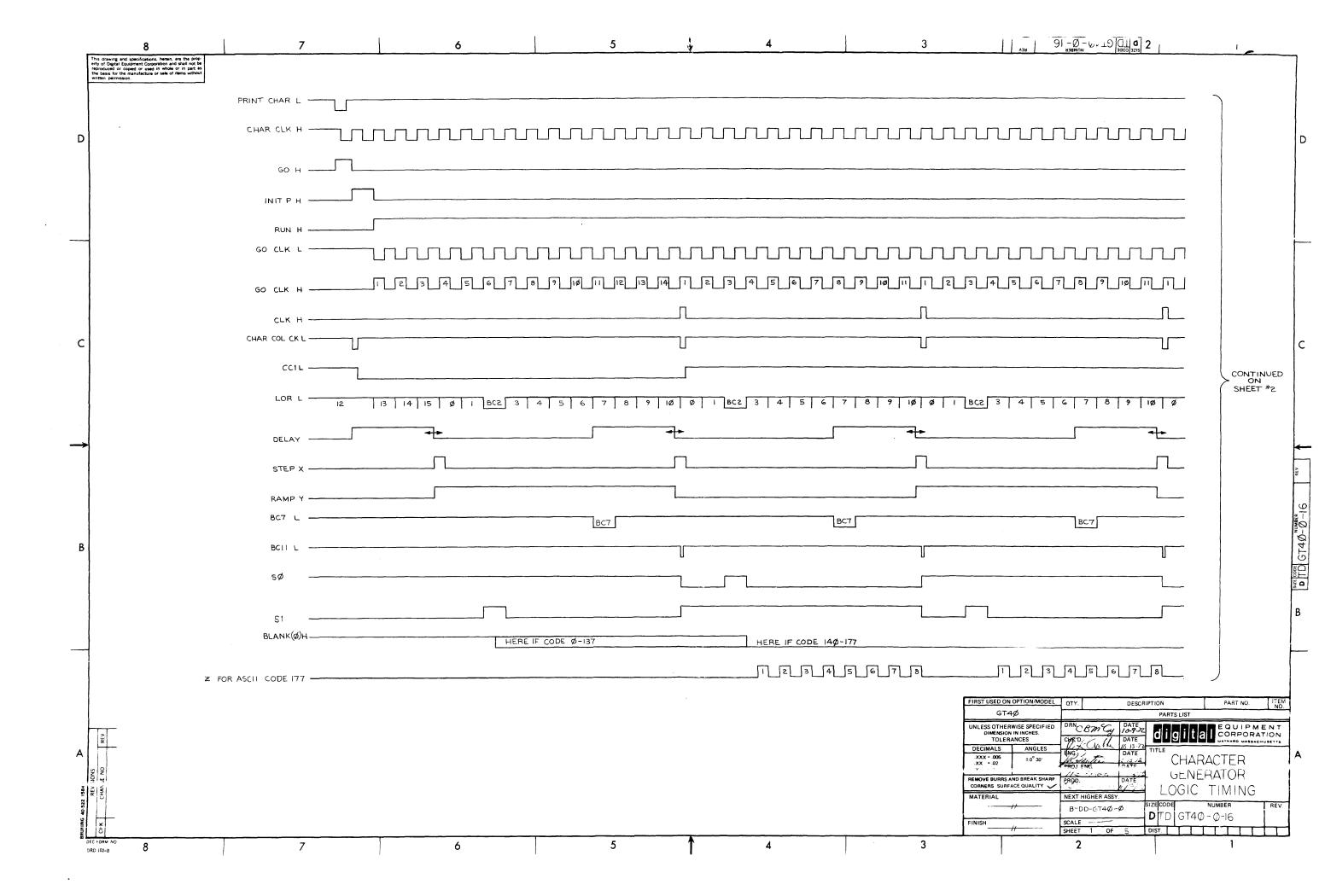


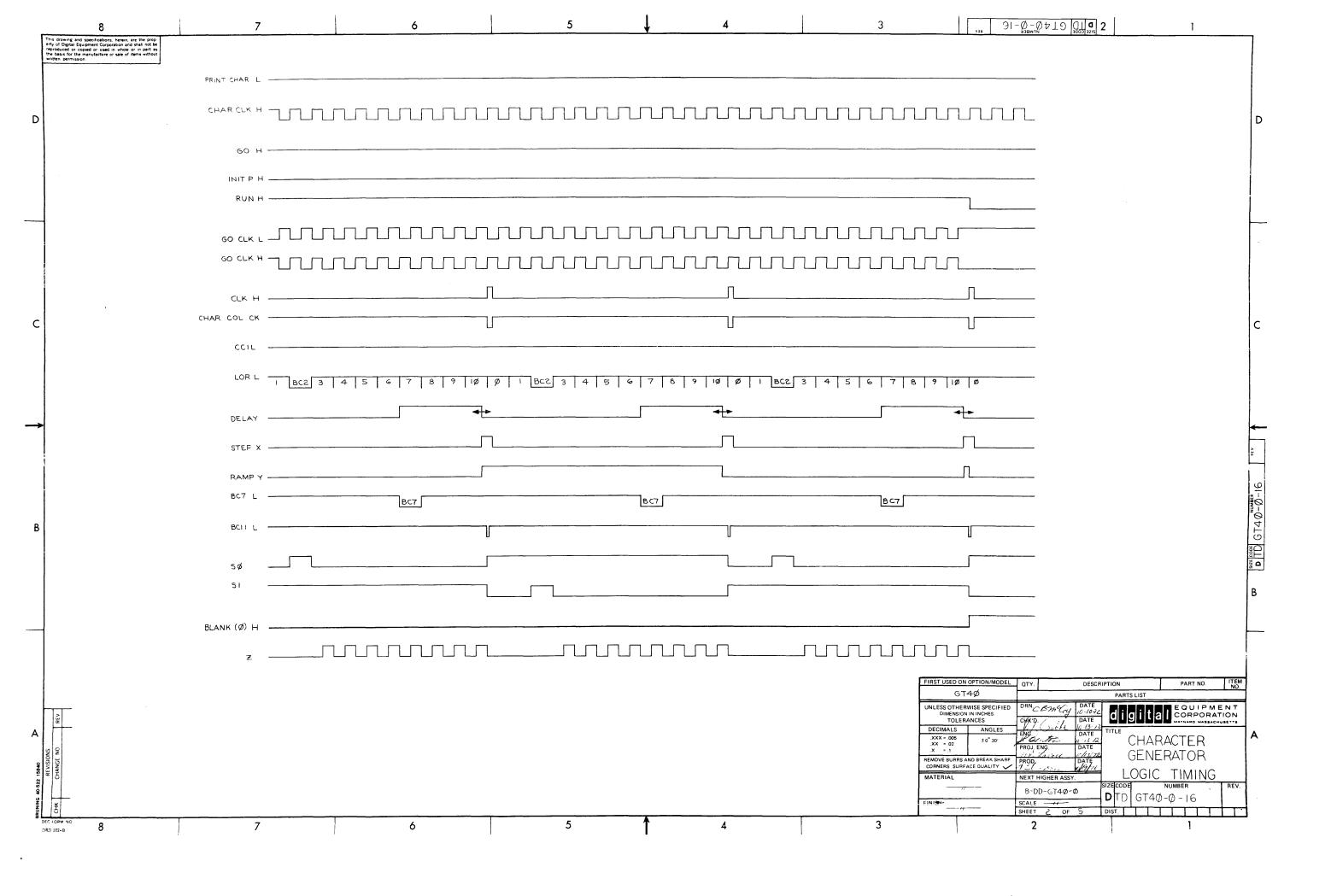


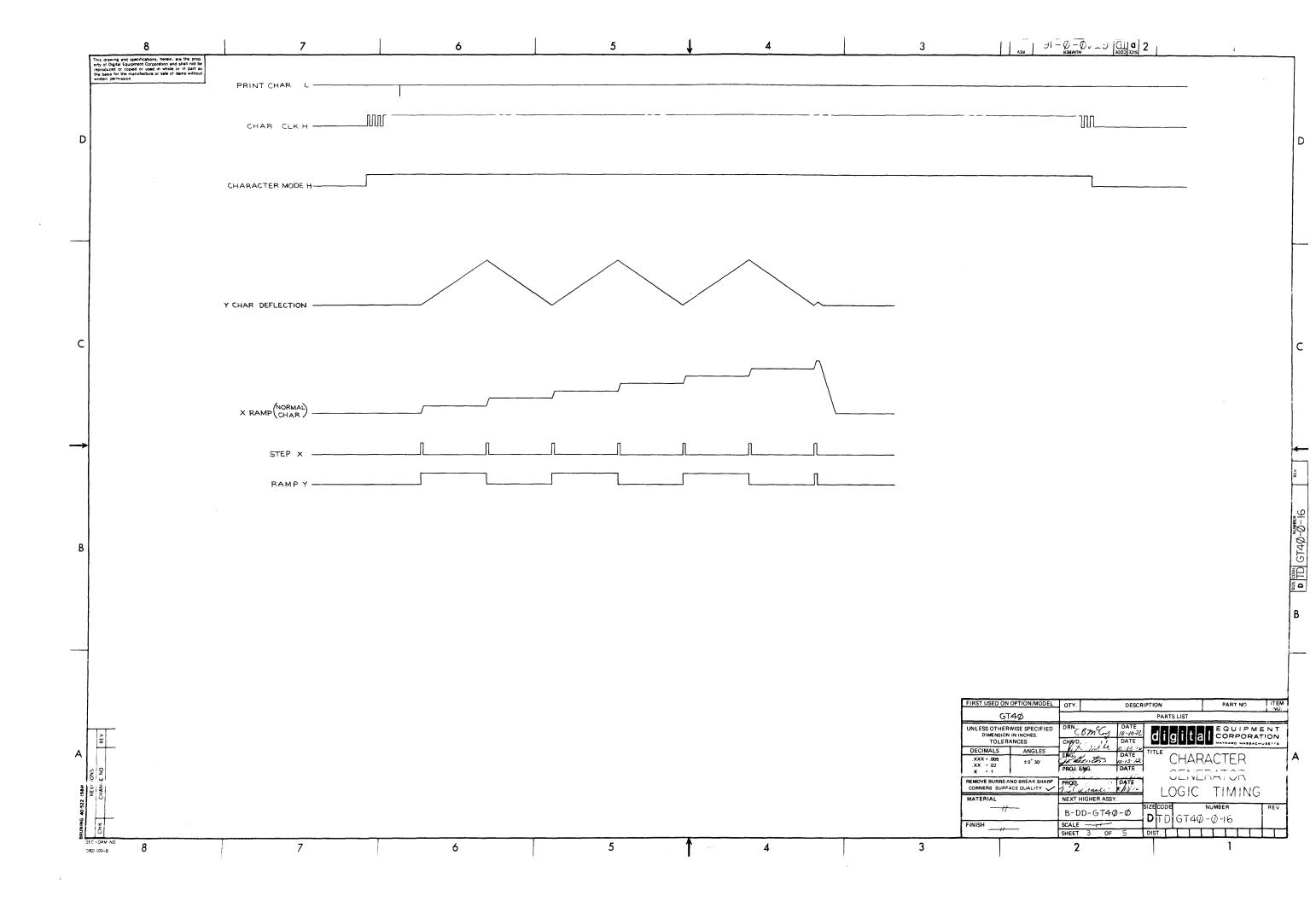


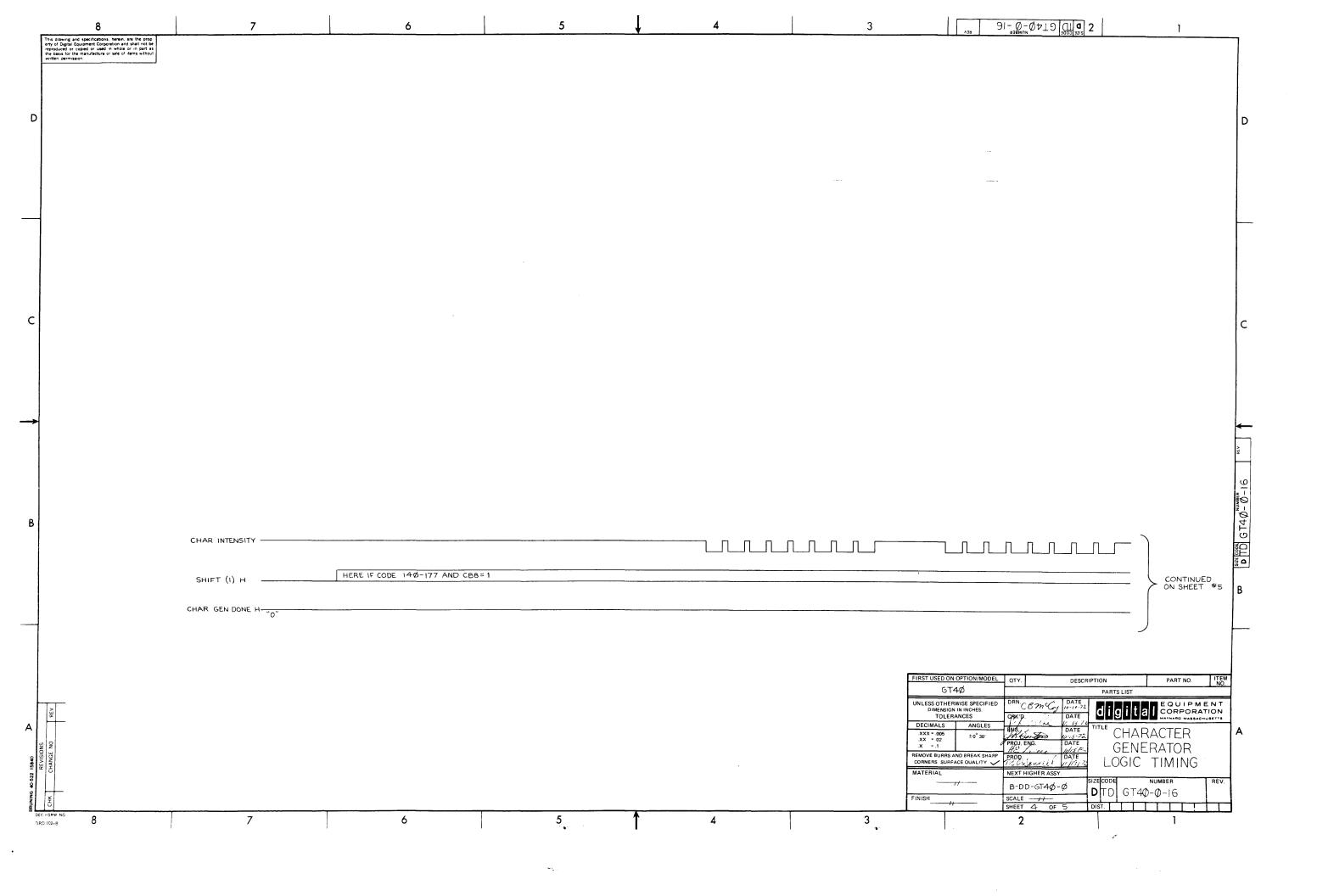


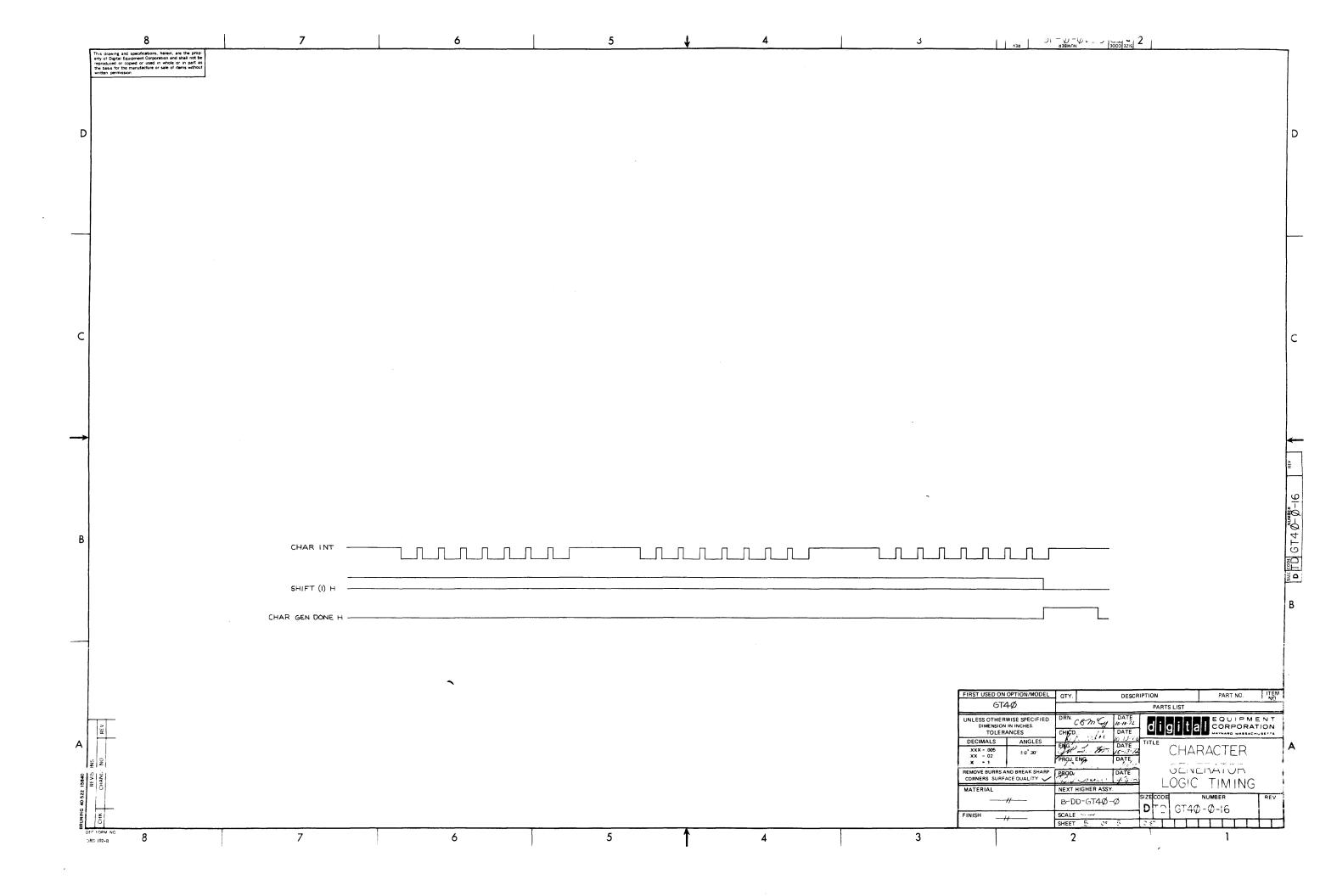


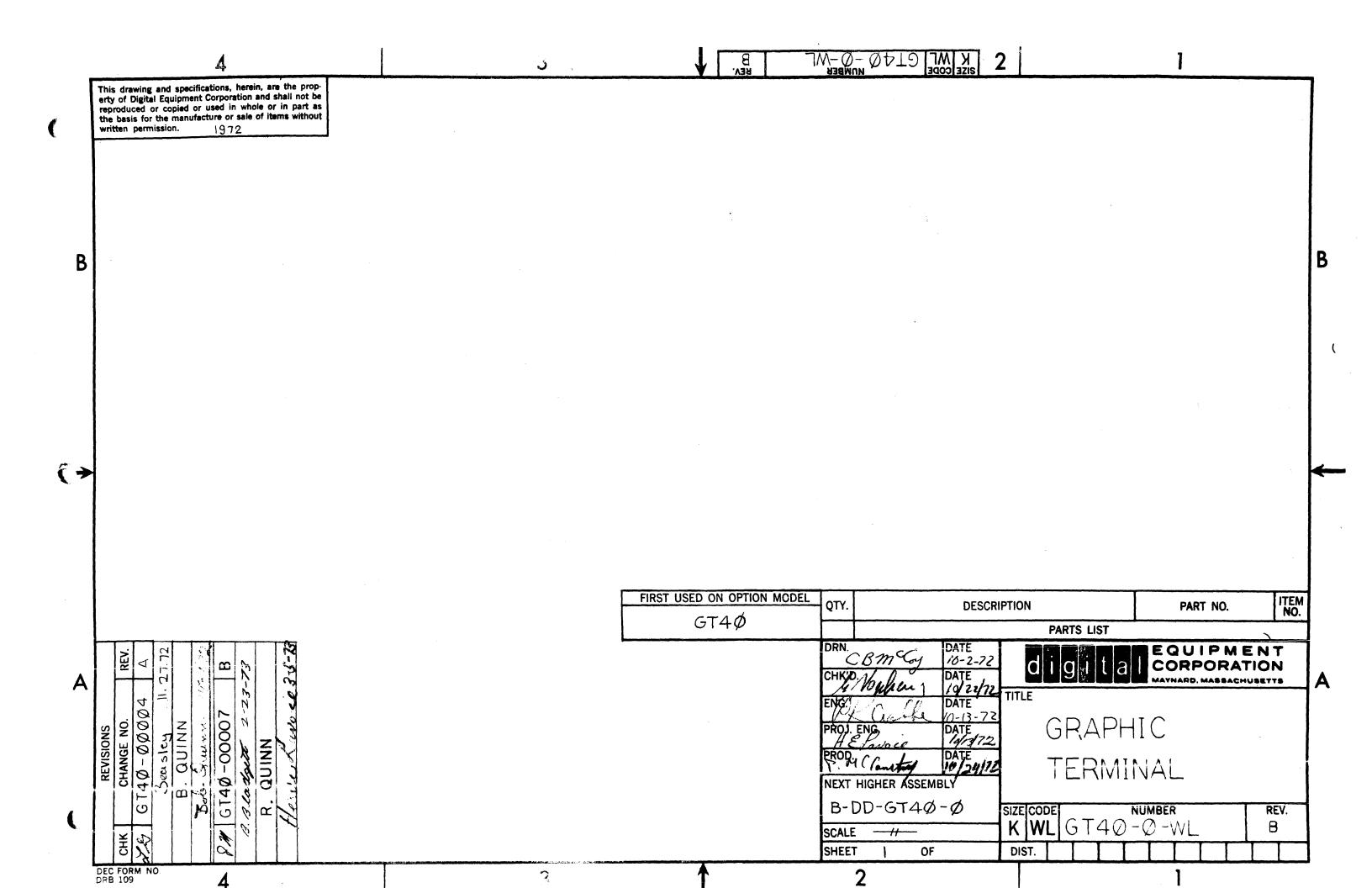












GT4Ø.B RŪN NAME		HND288,V A/P PIN NAME	ÖRDER PIN	BAY	Q	DRAW RV PG Y	X	Ź	<u>K</u> EMARKŞ	1=MAH=73 LENGTH	6152 Exceptions	PAGE 1 RUN NUMBER
+15V +15V +15V		E09P2 F01R2		1-01 *	# # I			2 1	24 AWG 24AWG		HAND WIRE	1 1
+15V +15V +15V		003R2 004U1		1-03 * 1-04 *	H			4	24AWG 24AWG	20-2/8	HAND WIRE TO HERE	1 1 1
+5 VDC	The second of the second committee of the second commi	ADIAZ	V	1-01 *	н	. .		2		P	HAND WIRE	2
+5 VDC +5 VDC		A Ø 2 A 2 A Ø 3 A 2		1-02 +	H			1 2		P P	HAND WIRE HAND WIRE	2 2
+5 VDC		AUAAZ		1-04 *	H			ī		è	HAND WIRE	2
+5 VDC +5 VDC		A05A2 A06A2		1-05 +	H			2		P P	HAND WIRE HAND WIRE	2 2
∙5 VDÇ		AØ7A2		1-07 +	Н			2		P	HAND WIRE	2
+5 VDC +5 VDC		A 49 A 2 A 40 B A 2		1-08 *	H			1 2		P	HAND WIRE	2 2
+5 V□Ĉ		BØ9A2		1-10	H			ī		ė	HAND WIRE	2
+5 VDC +5 VDC	to the transferrence of the second	808A2 807A2		1-11 *	H	•		2		P	HAND WIRE HAND WIRE	2 2
∔s voğ		BU6A2		1-12 *	H			2		é	HAND WIRE	2
+5 VDC +5 VDC		BØ5A2 BØ4A2		1-14 +	H			<u>1</u>		Þ	HAND WIRE HAND WIRE	2 2
+5 VOÜ		BUSAS	BØZAZ	1-16 *	H			1		ė	HAND WIRE	2
+5 VDC +5 VDC	W4.4	802A2		1-17 +	H			2		P Ö	HAND WIRE	2 2
+5 VOC		80181 801A2		1-15 +	II			2		P.	HAND WIRE	2
+5 YDĞ +5 YDĞ		C01A2 C02A2		1-20 *	H			1		p p	HAND WIRE HAND WIRE	2 2
+5 VDÇ		CØ2A2		1-21 *	н			1		P P	HAND WIRE	2
+5 VDC +5 VDC		CÚ4A2	~	1-23 +	H			2		P	HAND WIRE HAND WIRE	2
+5 ∨ם⊈ַ		COGAS		1-25	H			Ž		P.	HAND WIRE	2
+5 VDĈ ◆5 VDĈ		C07A2		1-26 *	H			1,		P p	HAND WIRE HAND WIRE	2 2
45 YDC	÷ .	CUPAZ		1-28 4	Н			21212		P	HAND WIRE	2
+5 VDC +> VDC	a the water and an ex-	D09A2	DØ8A2	1-29 +	H			2		P P	HAND WIRE HAND WIRE	2 2
+5 VDG		006AZ 007A2		1-31 *	H			2		Ř	HAND WIRE	2
+5 VOÇ		DUGAS		1-32 *	H			2		P	HAND WIRE	2
+5 VDC +5 VDC		DØ5A2 DØ4A2		1=33 *	H			1 2		ē	HAND WIRE HAND WIRE	2 2
+> VDC		DUSAS		1-35 *	H			2		P D	HAND WIRE	2
+5 VDG +5 VDG		DØ2A2 DØ1A2		1=36 *	H			2		É	HAND WIRE HAND WIRE	2 2
+5 VOC		EØ1A2		1-38 *	Н			1		ė Š	HAND WIRE	2 2
+5 V.D.C +5 V.D.C		E V 2 A 2 E V 3 A 2		1=39 * 1=40 *	H			1		P	HAND WIRE HAND WIRE	2
+ș voğ		EØ4A2		1-41 *	Н			2		P	HAND WIRE	2
+5 VDC +5 VDČ		EØ5A2 EØ6A2		1-42 4	H			7		Ē	HAND WIRE	2
*5 YDC		EUTAR		1=44 +	H			1		ρ o	HAND WIRE	5
+5 VDC +5 VDC		EØBA2 EØ9A2		1-45 +	H			1		è	HAND WIRE	2
+5 VDC		FØ9A2		1-47 *	H			2		P D	HAND WIRE	2
+5 VDC +5 VDC		FØ8A2 FØ7A2		1-45 +	H H			2		è	HAND WIRE HAND WIRE	2 2
◆5 VDÇ		FØ6A2	9(471 ~-	1-50 #	H			1		P İ+MAR⇒73	HAND WIRE 6152	PAGE 2
GT4Ø,B RÛN NAME		HND288.V; A/P PIN NAME	ORDER Pin	BAY = ORDER	Q	DRAM RV PG Y	X	ź,	KEMARKS	LENGTH		
+> VDC		FØ5A2	*	1-51 *	Н			2		P	HAND WIRE	2
+5 VDC +5 VDC		F04A2 F03A2		1-52 *	Ħ			1 2		P	HAND WIRE	2
+5 VOC		FOZAZ		1-54 *	H			ī		P	HAND WIRE	2
+5 VOC +5 VOC		FØ1A2	and the second s	1=55 #	Н				Mar. 1997.	P 160-0/8	H TO WHERE	2 2
#15V		CØ7B2		1-01 +	H			2		P	HAND WIRE	3
#15V #15V		C0682		1-02 *	H			2		É	HAND WIRE	3
-15V		CØ482		1-04 +	H			- 1		P	HAND WIRE	3
-15V -15V		DØ482 DØ582		1-05 +	H			1		ê	HAND WIRE	3
-157		00682		1-07 +	Ħ			Ž		P S	HAND WIRE	3
+15V +15V		DØ782 EØ782		1-08 *	H			2		ê	HAND WIRE HAND WIRE	3 3
-15V		E0682		1-10 +	Ħ					- p	HAND WIRE	3
-15V -15V		E Ø 582 E Ø 482		1-11 *	Ħ			1		Ë	HAND WIRE	3 3
-15V		FØ4B2	-	1-13 *	H			2		P is	HAND WIRE	3
-15V -15V		FØ582 FØ682		1-14 +	H			ž	• •	é	HAND WIRE	3 3
-15V		FØ782	man and the subdiscontinuous screen transfer and service constraints.	1-16 *	Ħ			1	and an investment of the contract of the second and the contract of the contra	<u>P</u>	HAND WIRE	3
-15V -15V		F0982		1-17 *						51=0/8	TO HERE	3
ON IN		EÑZOS		1-01 *	Ħ.			2		P	HAND WIRE	4
00 IN		E Q 6 U 2		1-02 +	Ĥ			1		Ē	HAND WIRE To Here	4
ØØ IN		EØ7U2	v	1-03 +					an agreement of the section of the s	5-4/8	A MEDE	. 7
•				~ * 4 = 4 4 ** = -	·			9		P		E
00 SA 00 SA		EØ5V1 EØ6V1		1-01 +				1		P	HAND WIRE HAND WIRE	5 5
ØØ ŠA ØØ ŠA		EÑ7V1		1=03 +				標.		5-4/8	TO HERE	5
00 28	SA - Marie and America Marie Marie and America America	E05V2		1-01 +	H	A SECOND	and and deliver a subsequential	2	Management 1 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to	en and an entire of the training	HAND WIRE	6
00 58		E06V2		1-02 4				1		ė	HAND WIRE	6
00 SB 00 SB		EØ7V2		1-03 *						5-4/8	TO HERE	6 6
•							Market walk and a survey				The company page of the company of t	
01 IN		EØ7R1 EØ6R1		1-01 +	H			2		P	HAND WIRE	7
01 IN				1-03 +						'_		<u> </u>
01 IN 01 IN 01 IN		EØ5R1		1-60						5-4/8	TO HERE	7

GT40,B RŪN NAME		HND258.V17(17 A/P P)N ORG NAME PI	ER BAY -	Q	DRAM RV PG Y	X	≠ ĤE	MARKS	1-MA	R=73 LENGTH	6152 EXCEPTIONS	PAGE 3 RUN NUMBER
01 SA 01 SA		E Ø 5 P 1 E Ø 6 P 1	1-01 *	Н			2 1		P		HAND WIRE	8 8
Ø1 ŠA Ø1 ŠA		E Ø 7 P 1	1-03 *							5-4/8	TO HERE	8 8
01 58		EUSP2	1-01 *	H			2		P		HAND WIRE	9
01 SB 01 SB		EØ6P2 EØ7P2	1-02 * 1-03 *	Н			1		Ď.		HAND WIRE TO HERE	9 9
Ø1 §8		FRIFZ	1-03 0							5=4/8	IN HENE	9
02 IN		E Ø 5 M 1	1-01 *	Н			2		P		HAND WIRE	10
02 IN		EØ6M1	1-02 *	Н			1		٥		HAND WIRE TO HERE	10
02 IN		EØ7M1	1-03 *							5-4/8	IN MENE	10
02 SA		EU5L1	1-01 *	H			2		Ŗ		HAND WIRE	11
Ø2 SA Ø2 SA	e and the second of the second	EDOL1	1-02 *	Ħ			1		ě		HAND WIRE TO HERE	11 11
05 2v		E07L1	1-Ø3 +							5-4/8	I MERCE	11
Ø2 58		E10512	1-01 +	H			2		P		HAND WIRE	12
Ø2 5 8		E10-61-5	1-02 *	H	,		1		P		HAND WIRE TO HERE	12 12
02 \$8 02 \$8		E107L2	1-03 * 1							5-4/8	i Mi HEVE	12
Ø3 IN		E05J1	1-01 +	H			2		P P		HAND WIRE	13
03 IN		ED6J1	1-02 4	H			1		ĕ		HAND WIRE TO HERE	13 13
03 IN 05 IN		E07J1	1=23 +							5-4/8	IN HERE	13
Ø3 SA		EQ5H1	1-01 *	н			2		P		HAND WIRE	14
03 SA		ERIGH1	1-02 *	H			1		ĥ		HAND WIRE TO HERE	14 14
03 5A 03 5A		EØ7H1	1-03 *							5-4/8	IN MERC	14
Ø3 \$B		EØ5H2	1-01 +	H			5		P		HAND WIRE	15
03 SB		EØ6H2	1-02 +	Н			1		ě		HAND WIRE TO HERE	15 15
03 58 03 58		EØ7H2	1-Ø3 * 1							5-4/8	IÀ MENE	15
04 IN		EØ5R2	1-01 *	н			2		ě		HAND WIRE	16
04 IN		EØ6R2	1-02 *	Н			1		Š		HAND WIRE TO HERE	16 16
04 IN 04 IN		EØ7R2	1-03 + 1			-				5-4/8	I MENE	16
_ ·			~									

GT40,8 RÛN NAME		(17) 06/22/72 Order Bay - 0 draw Pin Order	RV PG Y X & MEMARKS	1=MAR#73 Length	6152 EXCEPTIONS	PAGE 4 RUN NUMBER
04 SA	E 05\$1	1-01 * H	2	P P	HAND WIRE	17
Ø4 \$A	E0651	1-02 * H	1	۲	HAND WIRE	17
Ø4 SA	E0751	1-03 *		5-4/8	TO HERE	17 17
04 SA		1		24470		± /
Ø4 SB	EØ552	1=01 + H	2	P	HAND WIRE	18
Ø4 SE	E0652	1=02 B H	1	è	HAND WIRE	18
04 S8	EØ752	ī-Ø3 *		•	TO HERE	18
Ø4 \$8	-	1		5-4/8		18
	EU5H2	1-01 + H	2	P	HAND WIRE	19
05 IN	EQQUS	1-02 + H	1	ė	HAND WIRE	19
05 IN	EDTM2	1-03 *	•	`•	TO HERE	Î9
05 IN		1		5•4/8		19
•		-		_		(
05 SA	EØ5N1	1-01 + H	2	P	HAND WIRE	20
05 SA	E06N1	1-02 + H	<u>.</u>	Ŕ	HAND WIRE	20
Ø5 SA	EØ7N1	1-03 +		5-4/8	TO HERE	20 20
Ø5 5A		1		2-7/0		5 5
Ø5 58	E05N2	1-01 + H	2	P	HAND WIRE	21
Ø5 SB	EØ6NZ	1-02 * H	1	ė	HAND WIRE	21
Ø5 SB	EØ7N2	1-03 *		-	TO HERE	21
05 <u>\$</u> B		1		5-4/8		21
Ø6 IN	EØ5J2	1-01 + H	2	P	HAND WIRE	22
Ø6 1N	EÑÓJZ	1-02 + H	Ĭ.	è	HAND WIRE	22
Ø6 IN	EDTJZ	1-03 *	₹		TO HERE	22
06 IN		i	and the second s	5-4/8	• •	22
74 E A	EØSK1	1=01 + H	2	ь	HAND WIRE	23
06 SA 06 SA	E06K1	1-01 - H	1	P P	HAND WIRE	23
Ø6 5A	EÓTKÍ	1=03 +	•	'.	TO HERE	23
Ø6 SA		i		5-4/8	, , , , , , , , , , , , , , , , , , ,	23
		en den de de de de la gradie de				
Ø6 \$8	EØSKI	1-01 * H	3	P P	HAND WIRE	24
06 58 06 58	EØ6K2 EØ7K2	1=02 + H 1-03 +	1	.	HAND WIRE TO HERE	24 24
06 SB	ENTRE	1		5-4/8	IN HENE	24
20 20		•				£ ¬
07 IN	EØ5E?	1-01 * H	2	P P	HAND WIRE	25
Ø7 IN	EØ6E2	1-02 * H	1	P	HAND WIRE	25
07 IN	EØ7E2	1-03 +			TO HERE	25
07 IN		1		5-4/8		25

(

G140.B RŪN NAME		HND288.V1 PIN NAME		/72 Y =	Q	DRAM RV PG Y	X	ŧ	<u>H</u> EMARKS	1=MAR:273 Length	6152 Exceptions	PAGE 5 RUN NUMBER
Ø7 SA		EØ5F1	1=	Ø1 *	н			2		P	HAND WIRE	26
Ø7 ŠA		EØ6F1		02 *				1		P	HAND WIRE	26
07 SA		EØ7F1		03 +				•		`-	TO HERE	26
07 ŠA			1							5=4/8		26
07 SB		E05F2	1-	01 *	H			2		P	HAND WIRE	27
07 SB		EØ6F2	***	02 #				1		P	HAND WIRE	27
07 SB		EØ7F2		Ø3 #				π.			TO HERE	27
Ø7 § 8		•	ī							5-4/8	•	27
Ø8 IN		E05E1	1•	01 *	. н			2		P	HAND WIRE	28
Ø8 IN		EØ6E1		02				1		É	HAND WIRE	28
ØB IN		EØ7E1		03 *				-		•	TO HERE	28
08 IN			ī							5=4/8		28
08 SA		E0501	1•	01 *	н			2		P	HAND WIRE	29
08 SA		EØ6D1	_	Ø2 *				1		P P	HAND WIRE	29
Ø8 ŠA	· · · · · · · · · · · · · · · · · · ·	E0701		03 *				. 77			TO HERE	29
ØB SA			ī							5-4/8		29
Ø8 \$8		EØ502	1.	01 #	н			2		þ	HAND WIRE	30
08 ŜB		EDODS		. Ø2 *				i		è	HAND WIRE	3 Ø
08 \$8		EØ7D2	•	Ø3 +				7		•	TO HERE	30
ช <u>ิ</u> ชัช		er remarker vande (* 1. 17 s. s.)	1	2		article in the second of the			•••	5-4/8		30
09 IN		00502	1	Ø1 *	н			2		Р	HAND WIRE	31
09 IN		DØ6U2	-	Ø2 #				1		P	HAND WIRE	31
09 IN		00702		03				7.		-	TO HERE	31
Ø9 IN			ĩ			Company of the Compan				5-4/8	·	31
09 SA		DØ5V1	1.	01 *	Н			2		ę	HAND WIRE	32
09 SA		DØ6V1		Ø2 *		•		1		P	HAND WIRE	32
09 SA		DØ7V1		93 4				-			TO HERE	32
Ø9 ŞA		•	ĩ	-						5-4/8		32
09 \$8	* ****	DØ5V2	1.	01 *	H	1.00		2	a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P	HAND WIRE	33
Ø9 SB		DØ6 V2		Ø2 4	. ,			1		P	HAND WIRE	33
09 SB		DØ7V2		Ø3 4				~		ye.	TO HERE	33
Ø9 SB			ī							5-4/8	• •	33
10 IN		DØ5R1	1.	01 4	· H			2		P	HAND WIRE	34
10 IN		DØ6R1	-	02		when the said		1		Ď.	HAND WIRE	34
10 IN		D07R1		Ø3 «				-		-	TO HERE	34
			-	**						5-4/8		34

C	GT40.8 RÜN NAME	HND288, V17(17) Ø6 A/P PIN ÖRDER NAME PIN	BAY - Q D	RAM RV PG Y X # MEM	1=MAR±73 ARKS LENGTH	6152 PAGE 6 EXCEPTIONS RUN NUMBER
(10 5A 10 5A 10 5A 10 5A	DØ5P1 DØ6P1 DØ7P1	1-01 * 1-02 * H 1-03 *	2 1	P P 5-4/8	35 HAND WIRE 35 TO HERE 35 35
C	10 SB 10 SB 10 SB 10 SB	DØ5P2 DØ6P2 DØ7P2	1-01 * H 1-02 * + 1-03 *	2 1	P P 5-4/8	HAND WIRE 36 TO HERE 36 36 36
C C	11 IN 11 IN 11 IN 11 IN	005M1 006M1 007M1	1-01 * H 1-02 * H 1-03 *	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P P 5-4/8	HAND WIRE 37 HAND WIRE 37 TO HERE 37 37
C C	11 SA 11 SA 11 SA 11 SA	DØ5L1 DØ6L1 DØ7L1	1=01 * H 1=02 * H 1=03 *	2 1	P P 5=4/8	HAND WIRE 38 HAND WIRE 38 TO HERE 38 38
C	11 \$8 11 \$8 11 \$8 11 \$8	00512 00612 00712	1-01 * H 1-02 * H 1-03 *	2 1	P P 5=4/8	HAND WIRE 39 HAND WIRE 39 TO HERE 39 39
U	12 IN 12 IN 12 IN 12 IN	005J1 006J1 007J1	1-01 * H 1-02 * H 1-03 *	2 1	P P 5-4/8	HAND WIRE 40 HAND WIRE 40 TO HERE 40 40
L L	12 \$A 12 \$A 12 \$A 12 \$A	DØ5H1 DØ6H1 DØ7H1	1-01 * H 1-02 * H 1-03 *	2 1	P P 5-4/8	HAND WIRE 41 HAND WIRE 41 TO HERE 41 41
C	12 §B 12 §B 12 §B 12 §B	DØ5H2 DØ6H2 DØ7H2	1-01 + H 1-02 + H 1-03 +	2	P P 9 5=4/8	HAND WIRE 42 HAND WIRE 42 TO HERE 42 42
	13 IN 13 IN 13 IN 13 IN	DØ5R2 DØ6R2 DØ7R2	1-01 * H 1-02 * H 1-03 *	2 1	P P 5-4/8	HAND WIRE 43 HAND WIRE 43 TO HERE 43 43

G <u>I</u> 4Ø.8	HNI	D288,V17	(17) 06/22/	72				1-MAR:73	6152	PAGE 7
RŪN NAMĘ	A/P F	PIN NAME	ORDER BAY	•	Q DRAM RV PG	Y X ±	HEMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
13 SA		()Ø5S1	1-0:	1 #	Н	2		P	HAND WIRE	44
13 SA		00651	ī-Ø	2 #	H	1		P	HAND WIRE	44
13 SA		00751	1-0	3 #				-	TO HERE	44
13 SA			1					5-4/8		44
13 SB		00552	1-0:		H	2	49	P	HAND WIRE	45
13 §B		00652	1-0		H	1		è	HAND WIRE	45
13 \$B		C Ø752	1-0	3 #					TO HERE	45
13 SB			1					5-4/8		45
14 IN		DØ5M2	1-0:		H	2		P	HAND WIRE	46
14 IN		006M2	1-0		H	1		P	HAND WIRE	46
14 IN 14 IN		DØ7M2	1-0:	5 +					TO HERE	46
† # 1 M			1					5-4/8		46
14 §A		DØ5N1	1-0:	. *	H	2		p p	HAND WIRE	47
14 SA		DØ6N1	1-0		H	1,		Ř	HAND WIRE	47
14 SA		DØ7N1	1-0	3 #				-	TO HERE	47
14 \$A			1					5-4/8		47
14 58		DØ5N2	1-0:	L *	н	2		p P	HAND WIRE	48
14 \$B		D06N2	1-0	2 #	H	1		ê	HAND WIRE	48
14 SB		D07N2	1-03	3 #	and a contract to the second course of the second contract of				TO HERE	48
14 \$8			1					5-4/8		48
15 IN		00512	1-0:	L # "	H	2		P P	HAND WIRE	49
15 IN		DNens	1-0		H	1,		P.	HAND WIRE	49
15 IN		DØ7J2	1-0	5 4				T 44-	TO HERE	49
15 <u>I</u> N					and the state of t			5-4/8		49
15 §A		DØ5K1	1-0	L #	Н	2		p Ā	HAND WIRE	50
15 §A		DU6K1	1-0		Ĥ	1		Ř	HAND WIRE	5Ø
15 SA		DØ7K1	1-0	3 *					TO HERE	5 Ø
15 SA			1					5-4/8		50
15 SB		D05K2	1=0:		H	2		P.	HAND WIRE	51
15 SB		DØ6K2	1-0		H , .	1		Ē	HAND WIRE	51
15 SB		DØ7K2	1-0:	3 #				~	TO HERE	51
1> §B			1.					5-4/8		51
A BG IN	н	DØ4U2	1-0:	L #		1				52
A BG IN	H	F0481	1-0	2 #						52
A BG IN			1					5=6/8		52
A BG OUT	н	DØ4V2	1-0	L #		1				53
A HG DUŢ	H	FID4A1	1-0			. **				53
A BG OUT			1		come pulliarity or on			5-6/8		53

C	GI40,8 Rûn name	A/P	ND288.V1 PIN NAME	7(17) 06 Order Pin	/22/72 BAY = ORDER	Q	DRAW RV PG Y X	ž	HEMARKS	1=MAR±73 Length	6152 PAGE 8 EXCEPTIONS RUN NUMBER
(A BR OUT A BR OUT A BR OUT A BR OUT		DØ4J2 FØ4P1 FØ4U2		1=01 (1=02 (1=03 (•		1,		11-4/8	54 54 54 54
C	A IN A IN A IN	Н	DØ4H1 EØ4M1		1-01 1-02			··· 1		5-2/8	55 55 55
C C	A INT A A INT A A INT A	H	DØ4N1 FØ4U1		1=01 1=02 1			1		8-2/8	56 56 56
Č	A INT B A INT B A INT B	H	C04J1 FØ4K2		1-01	•		1		10-4/8	57 57 57
C	A INT ENB A A INT ENB A A INT ENB A	H	DØ4M1 FØ4V1		1-01	•		1		8-4/8	58 58 58
C C	A INT ENB H A INT ENB H A INT ENB R	H H ,	C04L1 F04H2		1-01			1		10-0/8	59 59 59
L	A DUT HIGH A DUT HIGH A DUT HIGH	H H	D04K1 E04M2	<u>-</u>	1-01			1		5=2/8	60 60
C	A OUT LOW A OUT LOW A OUT LOW	H	DØ401 EØ4N1 DØ4F1		1-01	•				5=6/8	61 61 61
	A SELECT OF A SELECT OF A SELECT OF	H .	EØ4\$2		1-01	•		1		6-0/8	62 62 63
•	A SELECT 0: A SELECT 0: A SELECT 0:	H	E0472		1-02	•	and the second s	•		6-0/8	63 63 64
•	A SELECT Ø4 A SELECT Ø4	Ĥ	EØ4R2		1-02			•		6=2/8	54 54

GT40.B RÜN NAME	A/P	ND288.V1 PIN NAME	7(17) Ø6, ORDER Pin	22/72 BAY - Order	• (G DRAN	RV PG Y	X	ź	HEMARKS	1=MAR=73 Length	6152 EXCEPTIONS	PAGE 9 RUN NUMBER
A SELECT Ø6 A SELECT Ø6 A SELECT Ø6	H	D04C1 E04S1		1-01 1-02 1					1,		6=2/8		65 65 65
A SSYN INHIBIT A SSYN INHIBIT A SSYN INHIBIT	L L	DØ4V1 EØ4B1		1-01 1-02 1		** *		- ·	,		2=6/8		66 66 66
A Ø 1 A Ø 1 A Ø 1	H	DØ6A1 DØ7A1		1-01 1-02 1		H			1		P 2=6/8	HAND WIRE TO HERE	67 67 67
AUJE1 AUJE1 Aŭje1		AØ3K1 AØ3E1		1-01 1-02 1					1		3-0/8		68 68 68
ASL AØ1 ASL AØ1	<u>н</u>	A03P2 D02P2	DØ2P2	1-01 1-02 1				(w	1		10=4/8		69 69 69
VŽT VÕS VŽT VÕS	H	AØ3L1 DØ2N2	DØ2N2	1-01 1-02 1					1		10-6/8		70 70 70
AŞL BELL CHAR AŞL BELL CHAR AŞL BELL CHAR	Ļ	DØ2H5 DØ5Ë5		1-01 1-02 1					1,		3-0/8		71 71 71
AŞL RESUME ASL RESUME AŞL RESUME	H	AUZLZ AU3F2	· <u></u> · · · · · · · · · · · · · · · · · ·	1-01 1-02 1					1		3-0/8		72 72 72
ASL START ASL START ASL START	H	A02H1		1-01 1-02					1		3-0/8		73 73 73
ĐỢL DẠTA RDY Bộl dạta RDY Bộl dạta RDY	H	803K2	* ***	1-01 1-02 1					1		3-2/8		74 74 74
BÇL INIT BÇL INIT BÇL INIT	H	A0302 C02R1	as visible	1-01 1-02 1					1		9=2/8		75 75 75
BỘT MỆC CỦA BỘT MỆC CỦA BỘT MỆC CỦA	Ļ	AØ2J1 BØ3L2		1-01 1-02 1					1		5=6/8		76 76 76

r	GI40.B RÜN NAME	A/P	ND288.V1 PIÑ NAME	7(17) Ø6. Order Pin	/22/72 BAY ORDER	•	Q DF	RAW Ŗ	ly Pi	<u>G</u> Y	X	ž.	KEMARKŞ	1=MAR=73 Length	6:52 PAGE 10 EXCEPTIONS RUN NUMBER	
(80F 08 00 80F 08 00 80F 08 00	H	A03V2 C02P1 D01N2		1-01 1-02 1-03							1 2			77 77 77	
(BOT OR NO	7	ONTHS		1	•								12-2/8	77	
C	80F DR 01 80F DR 01	H	80381 80272 D01L2		1-01 1-02 1-03	*						2			78 78 78	
C	BÔF OR Q1				1									11-2/8	78	
Ĺ	801 08 03 801 08 03 801 08 03	H	803E1 802V1 D01P2		1=01 1=02 1=03	•					***	1			79 79 79	
	BỘC DR NS				1									11-4/8	79	
C	BOL OB 03 BOL OB 03	H H H	A03M1 C02E1 D01F2	nd.	1-01 1-02 1-03							2	A		60 80 80	
C	BOL DR 02	,,	5,2,2		i	.,								12-2/8	80	
C	BOL OB 04 BOL OB 04 BOL OB 04	H	aøjni Cøzai Døiki		1-01 1-02 1-03	*						1 2			81 81 81	
C	BDL DH 04		_		1		A Second St. 1988 (1986)						Source Commission and Source	12=6/8	81	
L	801 08 05 801 08 05 801 08 05	H H	803R2 C0281 D01L1		1-01 1-02 1-03	*						2 1			82 82 82	
	BộL DH 05				1									10-0/8	82	
	BÔL DB 06 BOL DB 06 BOL DB 06	H	802V2 C03B1 D01H1		1-01 1-02 1-03	4						2			83 83 83	
	BOL DA Ø6				1									9-2/8	83	
•	BUL DB 07 BUL DB 07 BUL DB 07 BUL DB 07	H H	803N2 802U2 001F1		1-01 1-02 1-03	*		** 1 200 1 200 ******************************	Manham man a san	Mary 2 Company		2	T	9=6/8	8 4 8 4 8 4 8 4	
	BOT DR N8	н	BØ3P2		1-01	#						2			85	
	BOT DR N8 BOT DR N8	H	802N1 E01A1		1-02 1-03 1				anne u			ī		12-0/8	85 85 85	

ST40,8 Rûn name	A/P	ND2BB.V17 PIN NAME	7(17) Ø6/22/72 Order Bay = Pin Order	۵	DRAM R	V P <u>G Y</u>	X	<u>#</u>	HEMARKS	1=MAR=73 Length	6152 PAGE 11 EXCEPTIONS RUN NUMBER
gör ok ña	н	CNSHS	1-01	*				1,			86
BỐL ĐB Đ9	н	CH3L1	1-02					2			86
30L DB 09	H	E0102	1-03	#							86
BOT DR NA			1							10-2/8	86
30L DB 10	н	BUZF1	1-01	•				1			87
aor on 10	H	CHISTS	1-02	#							87
ĐỘL DH 10			1							5-6/8	87
BOL DB 11	н	CNSMS	1-01	#				1			88
BOL DB 11	H	CH3M1	1-02					7			88
BOL OR 11		•	1			or a street or great resident of				2-4/6	88
3DL DB 12	н	CKSKS	1=01	*				1			89
BDL DB 12	H	E0301	1-02			_		•			89
30L DB 12			ī							7-2/8	89
BOL DH 13	н	CØ2K1	1-01		and the second second second			1			90
3DL DB 13	H	DØ3P2	1-02					77			90
30L 08 13			1							6-0/8	90
3DL DB 14	н	CØ2J1	1-01					1			91
90L DB 14	H	DØ3M2	1-02					***			91
30L DB 14			1							5-6/8	9.1
BOL DB 15	н	802J1	1-01					1			92
30L 0B 15	H	00352	1-02								92
30L DB 15		- <u> </u>	1							8-6/8	92
BRM COUNT	H	EØ1V1	1-01								93
SRM COUNT >	H	FØ3H1	1=02					•			93
SEM COUNT >	,,	1 6 5117	1	ν-						4-0/8	93
SKM COUNT '	н	F01M1	1-01	<u>.</u> .				. 4			94
SEM COUNT Y	H	FØ3F1	1-02					*			94
BRM COUNT			1	·			att and a con-			3=6/8	94
BRM DXØ9	'н	DØ3F1	4 014					1		,	95
BRM DXØ9	H	EØ1R1	1-01 1-02					*		,	95 ·
SAM DXØ9	, ,	Eñ 4 VI	1 1	. T						6-2/8	95
HM DYØ9	н	MARKE						a			96
SKM DYØ9	H	DØ3K1 FØ1D1	1=01					4			96
BHM DYØ9	П	LANAT	1-02	-						7-2/8	96

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GT40:B Rûn name	HND28 A/P PIÑ NAM	(i) 7 T	6/22/72 BAY - ORDER	Q	DRAM RV PG Y X	.	HEMARKS	1=M#	Ha73 Length	6152 EXCEPTIONS	PAGE 12 RUN NUMBER
BUS AØØ	L BØ	9:12	1-01 *	н		2		P		HAND WIRE	97
BUS AUD		5H2	1-02 .	H		1		٩		HAND WIRE	97
BÜS AUD		7142	1-03 *	H		2		P P		HAND WIRE	97
BŪS ĀŪØ		6112	1-04 *	H		1		P		HAND WIRE	97
BŪS AÕØ		8112	1=05 *			ž		•		TO HERE	97
BŪS AØØ		4112	1=06 +			í				• • •	97
BŪS ĀĎØ		3U1	1-07 *			-					97
BŪS ĀÚØ	•	- (# -	1						36-4/8		97
BUS AU1	L 80	9H1	1-01 *	н		2		۲		HAND WIRE	98
805 A01	L BØ	8H1	1-02 *	H		1,		۲		HAND WIRE	98
BŪS AØĪ	L BØ	7H1	1-03 *	Н		2	***	P		HAND WIRE	98
BŪS AĐĪ		6H1	1-04 +	H		1		٥		HAND WIRE	98
BŪS AU1	L BØ	5H1	1-05 *			2				TO HERE	98
BŪS AØ1	L EØ	4H1	1-06 *			1					9 8
BÛS AÚ1	Ľ AØ	3K1	1-07 *								98
BŪS AŬĪ	-		1		and the second s		M = 4 m - 10 m 2		34-0/8		98
BUS AØ2		9,12	1-01 *	н		2		P		HAND WIRE	99
BUS AU2		8,12	1-02 *	Ħ		1		P		HAND WIRE	99
805 A02		7.2	1-03 *	Ħ		2		ė ė į		HAND WIRE	99
BUS ADZ		6,12	1-04 +	H		1		۹		HAND WIRE	99
BUS AUZ		5,2	1-05 *			2	0 m 1 0 m 9			TO HERE	95
BŪS AØ2		4F1	1-06 *			1					99
BÔ2 VÁS	L AØ	3P1	1-07 *								99
BŲS 422			1						33-4/8		99
BUS AU3	L 80	9J1	1-01 *	H		2		P		HAND WIRE	100
BUS AØ3	L BØ	8J <u>1</u>	1-02 *	H		1		P		HAND WIRE	100
BUS ANJ		7J1	1-03 *	H		2		P		HAND WIRE	100
BŪ5 AØ3		6J1	1-04 *	H		1		قِ		HAND WIRE	100
BŪS AØ3		5J1	1-05 *			2				TO HERE	100
BŪS AØ3		472	1-06 *			1					100
BŪS AŬ3	L AØ	3R1	1-07 *								100
BUS AØ3			1						36-2/8		100
BUS AN4		9K2	1-01 -	H		\$		P P		HAND WIRE	101
BUS AØ4		8K2	1-02 +	Н		1		P		HAND WIRE	101
BŪS AØ4	**	7K2	1-03 *	H		3		ê		HAND WIRE	101
BŪS AØ4		6K/2	1=04 +	Ħ		1		ė		HAND WIRE	101
BUS AU4		5K/2	1-05 +			2				TO HERE	101
BŪS AŅ4		4U2	1-06 *		Committee and the committee of the commi	1					101
BUS AP4	L AØ	31:T	1-07 *								101
BUS ARIA			1						36-4/8		101

G140. Rûn n	, B Name	A/P	HND288.V1 PIN NAME	7(17) Ø6/22/72 ÖRDER BAY - PIN ORDER	Q	DRÁM RV PG Y	X	ţ.	<u>HEMARKS</u>	1=M/	R∍73 LENGTH	6152 EXCEPTIONS	PAGE 13 RUN Number
BUS A		L	BØ9K1	1-01	* H	4		2		P		HAND WIRE	102
BŪS A		L	808K1	1-02	* H	4		i		p		HAND WIRE	102
BŪS A		Ĭ	BØ7Ki	1-03				ž		Þ		HAND WIRE	102
BŪS A	105	L.	BØ6K1	1=04		The state of the s		1		ē		HAND WIRE	102
BŪS A	Ú5	7	BØ5K1	1-05		•		3				TO HERE	102
BUS A	Ĉ5		E04V1	1-06				- " -				i di file il e	102
BÜS A		-	BN375	1-07	-			*					102
BŪS A			PACAE	1							34-0/8		102
BUS A	106		BØ9L2	1=01	• H			3		P		HAND WIRE	103
BŪS 4		7	80812	1-02				2				HAND WIRE	103 (
BÜS A			BU7L2	1-03					****	ĝ ĝ		HAND WIRE	103
BUS A		•	BØ612	1-04				4		þ		HAND WIRE	103
BŪS A			BØ512			*		-		7.		TO HERE	103
BUS 4			80262	1-05				<u>+</u>				IN MEVE	103
BÜS A			E04U1	1-06				2					103
		L	BØ3M1	1-07	•						77-049		
BÚS A	a 15 0	a consist of the desirence of the constant of	CONTRACTOR CONTRACTOR CONTRACTOR								33-2/8		103
BUS A	407	L	B09L1	1-01	* H	4		2		۲		HAND WIRE	104
BÜS A	107		BØSL1	1-02	* H	•		1		è		HAND WIRE	104
BŪS A	1 Ø 7	Ĭ.	BØ7L1	1-03				2		P P P		HAND WIRE	104
BŪS A	4 Ū 7	Ē.	BU6L1	1-04				1		ē		HAND WIRE	104
BŪS A	107	ī	BØ5L1	1-05		•		ž		•		TO HERE	104
BŪS A			E04P2	1-06				1	- F - 1 TW			i after i far i fill ou	104
BŪS A		Ī	BØSNI	1-07				-					104
BŪS A				i							32-2/8		104
BUS A	4 10 B	· L	BØ9M2	1-01	* H			2		P		HAND WIRE	105
BUS A	A Ø 8	ī	BØ8M2	1-02				ī		P P P		HAND WIRE	105
BÜS		· · · · · · · · · · · · · · · · · · ·	B07M2	1-03				2		ê		HAND WIRE	105
BŪS A	-		BØ6M2	1-04				7		ģ		HAND WIRE	105
BŪSĀ		. 🏲	BØ5M2	1=05				5		,		TO HERE	105
BŪS Ā		-	EØ4N2	1-06				1				. A Henr	105
BUSA			BØ3P1	1-07	-			🕈					105
BŪS A		b	BUSFI	1-0/	™						31-6/8		105
BUS A	409	L	809M1	1-01	• H	··		1		P		HAND WIRE	106
BUS A	_	· · · · · · · · · · · · · · · · · · ·	B08M1	1-02				2		P P		HAND WIRE	106
BUS A		7	BØ7M1	1=03				1		P		HAND WIRE	106
BŪS A			BØ6M1	1=04				2		Â		HAND WIRE	106
BŪS A		<u> </u>	BØ5M1	1-05		·· 1		1		١.		TO HERE	106
BÜS A			EØ4R1	1-06	Ψ.					4		A Mrur	106
BUS A		<u>, </u>		1-07				Ģ					106
BUS A		. •	CNRES	1=0/	₩						30=6/8		106
nĀ⊇ ₩	4 Ñ A			1							34-0/0		700

(GT40.B RÛN NAME	HND288,V1 A/P PIN NAME	7(17) 06/22/72 Order Bay - Pin Order	Q	DRAH RV PG Y X Z REMARKS	1-MAR373 Length	6152 PAGE S EXCEPTIONS RUN NUMBE	
(BUS A10 BUS A10 BUS A10	L 809N2	1-01 +	H	1	P P	HAND WIRE 107 HAND WIRE 107 HAND WIRE 107	
(BUS A10 BUS A10 BUS A10	L BØ5N2 L BØ5N2 L BØ5N2	1=23 * 1=24 * 1=25 * 1=26 *	H		Ē	HAND WIRE 107 TO HERE 107 107	
(BŪS A10 BŪS A10	L CØ3F2	1-07 *		6	30-0/8	107 107	
(BUS A11 BUS A11 BUS A11	L B09N1 L B08N1 L B07N1	1=01 + 1=02 + 1=03 +	H	2	P P	HAND WIRE 108 HAND WIRE 108 HAND WIRE 108	
C	BŪS A11 BŪS A11 BŪS A11	L BØ6N1 L BØ5N1 L EØ4L1	1-04 * 1-05 * 1-06 *	Ĥ	2 1 2	P	HAND WIRE 108 TO HERE 108 108	
(BUS A11 BUS A11	C c 3H2	1-07 +			29=2/8	108 108	
C	BUS A12 BUS A12 BUS A12	L 809P2 L 808P2 L 807P2	1-01 * 1-02 * 1-03 *	* * *	1 2 1	P P P	HAND WIRE 109 HAND WIRE 109 HAND WIRE 109	
C	BŪS A12 BŪS A12 BŪS A12	L 806P2 L 805P2 L E04C1	1=04 + 1=05 + 1=06 +	Ĥ	2	P	HAND WIRE 109 TO HERE 109 109	
C	BUS A12 BUS A12	CØ3P1	1-07 +		4	26-6/8	109 109 109	
L	BUS A13 BUS A13 BUS A13	L 809P1 L 808P1 L 807P1	1-01 * 1-02 * 1-03 *	H	1	р Р	HAND WIRE 110 HAND WIRE 110 HAND WIRE 110	
C	BUS A13 BUS A13 BUS A13	L 806P1 L 805P1 L E04K2	1-04 * 1-05 *	H	2	P	HAND WIRE 110 TO HERE 110	
•	BUS A13	L 00302	1-06 * 1-07 * 1		• • • • • • • • • • • • • • • • • • •	26-4/8	110 110 110	
Ļ	BUS A14 BUS A14 BUS A14	L 809R2 L 808R2 L 807R2	1-01 + 1-02 +	HH	1 2	P	HAND WIRE 111 HAND WIRE 111	
C	BUS A14 BUS A14 BUS A14	L 806R2 L 805R2	1-03 + 1-04 + 1-05 +	H	2	4	HAND WIRE 111 HAND WIRE 111 TO HERE 111	
C	8US A14 8US A14	L E04K1 L D03F2	1-06 * 1-07 * 1		2	26-0/8	111 111 111	

GI40'R		HND288, V17(17) 0	6/22/72				1-MAR=73	6152	PAGE 15
RŨN NAME	A/P	PIN ORDER	BAY -	a	DRAW RV PG Y X	# REMARKS	LENGTH		
		NAME PIN	ORDER	-	The second secon		•		NUMBER
BUS A15	ι.	BØ9R1	1-01 *	н		1	P	HAND WIRE	112
BŪS A15		BØ8R1	1-02 *			2		HAND WIRE	112
BŪS A15	-	BØ7R1	1-03 +			1	P P	HAND WIRE	112
BŪS A15	<u>-</u> -	BØ6R1	1-04 +			* •	r Ď	HAND WIRE	112
BUS A15	-	805R1	1-05 +	п		6	ŗ	TO HERE	112
BŪS A15		EØ4D2	1-06 #			*		I A WEILE	112
BUS A15	-	DØ3N1	1-07 +			4			112
BŪS Ā15	. 1	D 60147	1-0/ -				24-2/8		112
			*				24-6/0		
BUS A16	L	B09\$2	1-01 *	Н	· · · · · · · · · · · · · · · ·	1	P	HAND WIRE	113
BUS A16	L	B.08S2	1-02 *	H		2	þ	HAND WIRE	113
BUS A16	L	BØ752	1-03 *	H		1	P	HAND WIRE	113
BŪS A16	Ļ	BØ6\$2	1=04 +	Н		2 .	P	HAND WIRE	113
BŪS A16	L	BØ5\$2	1-05 *			1		TO HERE	113
BŲS A16	Ļ	ED4E2	1-96 *			2			113
BŪS A16	L	00311	1=07 *						113
BUS A16		and the second of the second o	1		and the term of the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete complete and the complete and the complete complete complete and the complete complete complete and the complete com		24-6/8		113
BUS A17	i.	B0951	1-01 *	Н		1	Р	HAND WIRE	114
BŪS A17	Ī	B0851	1-02 +	ü		2	P	HAND WIRE	114
BŪS Ā17	-	B07S1	1-03 *	H		ĩ	ja	HAND WIRE	114
BŪŠ AĪ7	-	BØ6\$1	1-94 +	- 2		Ž	ĝ	HAND WIRE	114
BŪS A17		80551	1-05	17		1	•	TO HERE	114
BŪS AIT	- T	E0401	1-06 +		THE R. P. LEWIS CO., LANSING MICH. LANSING MICH. LANSING MICH. LANSING MICH.	Ž			114
BŪS A17	- 7	DØ381	1-07 *			-			114
BŪS A17	-		1				25-2/8		114
		* ********						HAND HEDE	445
BAZ VC FD	L	BUSF1	1-01 *	H		1 2	P P P	HAND WIRE	115
BUS AC LO	<u> </u>	B06F1	1-02 *	₩.		3	P	HAND WIRE	115
BŪS AČ LO	L	B27F1	1-03 *	H		1	P	HAND WIRE	115
HŲS AČ LO	L	B08F1	1-04 *	Н		2	ķ	HAND WIRE	115
BŪS AČ LO	L.	BØ9F1	1-05 *			1		TO HERE	115
BUS AC LO	_ L	CØ4V1	1-06 *			4			115
BŪŠ AČ LO	L	FØ3E2	1-07 4			1			115
BŪS AC LO	<u> </u>	BØ182 FØ1K1	1=08 *		and the second second	2			115
BUS AC LO	L	FØ1K1	1-89 *				-		115
BŨS AŒ ĻO			1				55-Ø/8		115
ane area	L	APPPZ	1-01 -	н		2	P	HAND WIRE	116
BUS BBSY	Ĺ	AØBPZ	1-02 #	H		1	P	HAND WIRE	116
BŪS BUSŸ	Ĭ	AØ7P2	1-03 *	H		2	Ė	HAND WIRE	116
BŪS BUSY		AØ6P2	1-04 +	H		Ĭ	p .	HAND WIRE	116
BŪS BBSŸ	Ī	AØ5P2	1-05 +	• •		ž	•	TO HERE	116
อบัร อย ร ว	Ī.	FØ401	1=06 *			ĭ		A	116
BŪS BESY	Ē	A03F1	1-27 *			ž			116
BŪS BĖSŸ		BOILEZ	1-08 4			TX			116
BŪS BBSY	•	च्या का क	1				46-4/8		116
트롤로 프로즈스									

	ÑN NAWF I40ºA	A/P	ND288.V17 PIN NAME	(17) Ø6 Order Pin	BAY - ORDER	0	DRAW	RV PG Y	X	ŧ	HEMARKS	1=MAR=73 Length	6152 EXCEPTIONS	PAGE 16 RUN NUMBER
. 8	US BG 04 DET 3	н	DØ4\$2		1-01 *					1				117
8	US BG 04 DUT 3	H	EN3L1		1-02 *							4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		117
6	QS 8G 04 OUT 3				1							4=4/8		117
8	US 8G 05	н	80631		1-01 *	Н				2		P	HAND WIRE	118
	บูร ยู่ 05	H	80731	****	1-02 4	H				1		P	HAND WIRE	118
	ପୂଷ ଷତି ୭5	H	80881		1=03 *	H				2		Ļ	HAND WIRE	118
	IŲS 8G 05	H	80981		1-04 *					1			TO HERE	118
	ប្តើទ្ធ មិច្ចិ - ខុទ	H	EØ3P2		1-05 +									118
8	US BG Ø5				1							21-0/8		118
8	US BG 05 DUT 03	н	DØ4P2		1-01 *					1				119
8	US BG 05 00T 03	н	EØ3R2		1-02 #									119
8	QS 8G 05 0∺Ť 03		•		1							5-2/8		119
E	US BG 4	H	80662		1=01 *	н				2		P	HAND WIRE	120
	ŪS BG 4	н	BØ762		1-02 *	H						è	HAND WIRE	120
	ŪS BŪ 4	Ä	BØ86.2		1-03 +	H				1 2		P	HAND WIRE	120
	IŪS BG 4	Ĥ	BØ91.2		1=04 *	• • •				1		•	TO HERE	120
E	IŪS BG 4	н	ED3M1		1-05 +					75			• • •	120
8	เบูร ซตี 4		· · · · · ·		1							20-4/8		120
8	IUS 8G 4 OUT 04		DØ412		1-01 *					1				121
	US BG 4 OUT 04		BØ5£2		1-02 +									121
	IŪS BŪ 4 OU: 04				1							9-2/8		121
F	OUS BG 5 DUT Ø4		DØ482		1=01 *					1				122
	US 86 5 OUT Ø4		BØ581		1=02 *					-				122
	105 8G 5 OUT 04				i			Specialization contribution for a	,			9-2/8		1,22
E	IUS 86 6	н	B06A1		1-01 *	Н				2		P	HAND WIRE	123
	JŪS BŪ 6	н	BØ7A1		1-02 *	H				1		Š	HAND WIRE	123
	เบี้ร ยิจิ 6	H	BØ8A1		1-03 *	H				1 2		ė	HAND WIRE	123
5	IŪS BĞ 6	H	BUPAI		1-04 +	,.				ĩ		•	TO HERE	123
8	IŬS BĜ 6	H	EØ3R1		1-05 +					-			• •	123
E	iĝa Bĝ e		,		1							21-2/8		123
E	BUS BG 6 OUT Ø3		EB3N2		1-01 *					1				124
	US BG 6 OUT W3		DØ4M2		1-02 *					-				124
	IŲS BĢ 6 DUT P3		= 2		1							5-2/8		124
ç	BUS BG 6 OUT Ø4		DØ4N2		1-01 +					-1				125
	105 86 6 OUT 04		BØ5A1		1=02 *					•				125
	LUS BU 6 OUT 04		See A.		1							9-0/8		125
_	· # · · · · · · · · · · · · · · · · · ·				•							,-D, G		460

G [40 . B RÛN NAME	HND288,V17 A/P PIN NAME	(17) 06/22/72 Order Bay - Pin Order	Q DRAW RV PG Y	¢ HEMARKS	1-MAR-73 Length	6152 PAGE 1 EXCEPTIONS RUN NUMBE
BUS BG 7	H AØ6V1	1-01 *	Н	2	P	HAND WIRE 126
BUS BG 7	H ADTV1	1-02 4	H	1	P	HAND WIRE 126
BŪS BĢ 7	H A08V1	1-03 *	H	2	è	HAND WIRE 126
BUS BG 7	H AUPVI	1-04 *		1		TO HERE 126
BUS BG 7	H DØ3S1	1-05 *				126
BŪS BĒ 7		1			19=4/8	126
BUS BG 7 OUT Ø3	EØ351	1-01 *		1		127
BUS BG 7 OUT Ø3	DØ4K2	1-02 *				127
BUS BU 7 OUT 03		1			6-0/8	127
BUS BG 7 OUT Ø4	004L2	1-01 •	TO WE shall construct the decision of the second se	1		128
BUS BG 7 OUT Ø4	AØ5V1	1-02 +		***		128
BUS BE 7 OUT Ø4	THE RESERVE OF THE PROPERTY OF	1			9=4/8	128
BUS BH 4	L 80502	1-01 *	H	1	P	HAND WIRE 129
BUS BR 4	L B06D2	1-02 •	· ',	2	è	HAND WIRE 129
805 BR 4	BØ702	1=03 *	<u> </u>		ģ	HAND WIRE 129
BÜS BŘ 4	L 808D2	1=04 *	H	ž	Þ	HAND WIRE 129
BŪS BŘ 4	L B0902	1-05 +	**************************************	í	•	TO HERE 129
BÜ5 BŘ 4	L DØ4H2	1-06 +		2		129
BUS BR 4	L E03K1	1-07 *				129
BUS BR 4	AND A STATE OF THE		The state of the s		25-4/8	129
BUS BR 5	L 805C1	1-01 *	Н	1	P	HAND WIRE 130
BUS BR 5	L BØ6C1	1-02 +	•	Ž	P P P	TO HERE 130
BŨS BŘ 5	L 807C1	1-03 *	Н	1	į.	HAND WIRE 130
ยนี้รี ยหิ 5	F B08C1	1-04 *	H	Ž	<u> </u>	HAND WIRE 130
ยบูร ยหิ 5	L B09C1	1-05 *		1		TO HERE 130
ยน ู้ร ยหิ 5	L 004F2	1=06 *		2		130
BUS BR 5	F EØ3J1	1-07 +				130
BŪS BR 5		1			25=4/8	130
BUS BH 6	L A05U2	1-01 +	H	1	P	HAND WIRE 131
BUS BR 6	L A06U2	1-02 *	н	2	P	HAND WIRE 131
อบูร ธห์ 6	L A07U2	1-03 *	H	1	Ř	HAND WIRE 131
ยบุ๊ร ยห์ 6	L ADBUZ	1-04 +	₩, <u>.</u>	2	ĝ	HAND WIRE 131
ยบูร ยหิ 6	L AUPU2	1-05 +		1		TO HERE 131
BUS BR 6	r DAVES	1=06 *		2		131
BŪS BR 6	L E03H1	1-07 *			84 440	131
BŪS BR 6	resemble of the second	1			26-4/8	131

Ž.	GT40,8 RÜN NAME	HND288.V	17(17) 06/22/72 ORDER BAY - PIN ORDER	Q	DRAW RV PG Y X 4 MEMARKS	1=MAR#73 Length	6152 PAGE 18 EXCEPTIONS RUN NUMBER
(BUS BK 7 BUS BK 7 BUS BR 7	L A0572 L A0672 L A0772	1=02 + 1=03 +	H	1 2 1	P P P	HAND WIRE 132 HAND WIRE 132 HAND WIRE 132
(BŪS BR 7 BŪS BR 7 BŪS BR 7	L A0812	1-05 4 1-06 *)	Ž 1	ė.	HAND WIRE 132 TO HERE 132 132 132
(BŪS BR 7 BŪS BR 7	L EØ3F1	1	,		26-4/8	132
(BĀS CĀ BĀS CĀ BĀS CĀ BĀS CĀ	L 805U2 L 806U2 L 807U2 L 808U2 L 809U2	1=02 * 1=03 * 1=04 * 1=05 *	H H	1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1	P P P P	HAND WIRE 133 HAND WIRE 133 HAND WIRE 133 HAND WIRE 133 TO HERE 133
C	BÕS CÑ BÕS CÑ BÔS CÑ	L E04J2			2	25-4/8	133 133 133
C	BUS C1 BUS C1 BUS C1	L 805T2 L 806T2 L 807T2	1-02 * 1-03 *	H	2 1 2	P P P	HAND WIRE 134 HAND WIRE 134 HAND WIRE 134
	BŪS C1 BŪS C1 BŪS C1	L B0872 L B0972 L E04F2	1-05 +	<u> </u>	1 2 1		HAND WIRE 134 TO HERE 134 134
	BŪS C1 BŪS C1	L AØ3C1	. 1-07 * 1	•		34-4/8	134 134
C	8U\$ DØØ 8U\$ DØØ 8U\$ DØØ	L 80302 L C0452 L A050	1-02 *	•	2 1	ρ	135 135 HAND WIRE 135
C	8ÚS 000 8ÚS 000 8ÚS 000	L AØ6C: L AØ7C: L AØ8C:	1-04 + 1-05 +	H	1 2 1	P P P	HAND WIRE 135 HAND WIRE 135 HAND WIRE 135
	BŪS DØØ BŪS DØØ	L A0901				26-6/8	TO HERE 135
C	8US 001 8US 001 8US 001	L A0902 L A0802 L A0702	1-02 *	Н	1 2	P P	HAND WIRE 136 HAND WIRE 136 HAND WIRE 136
C	8US DØ1 8US DØ1 8US DØ1	L A0602 L A0502 L C04R2	1-04 * 1-05 *	H	2 1	<u>.</u>	HAND WIRE 136 TO HERE 136 136
	BŪS DØ1 BŪS DØ1	L BØ3F2			-	26-0/8	136 136

GT40.8 RŪN NAMĘ	HND288, V17(17) A/P PIN ORDER NAME PIN	Ø6/22/72 BAY = Q DRAW RV P ORDER	G Y X & MEMARKS	1-MARO73 Length	6152 EXCEPTIONS	PAGE 19 RUN NUMBER
BUS DØ2	L A0901	1-01 + H	1	₽	HAND WIRE	137
ยนิร อห์ร	L AØ8D1	1-02 + H	2	Þ	HAND WIRE	137
ยบัร อย2	L AB7D1	1-03 + H	ĩ	ē	HAND WIRE	137
BŪS DØZ	L AØ601	1-04 + H	Ž	Ê	HAND WIRE	137
BŨS DØZ	L AØ5D1	1=05 +	1	•	TO HERE	137
ยบีร อชิว	L CDAU2	1-06 *	2		•	137
BŨS DØZ	L FØ4E2	1-07 +	1			137
ยบุร ชต์ช	L BØ3H2	1-08 +	· 📑			137
BÃ2 DRS		i		42-0/8		137
BUS DØ3	L A09E2	1-01 * H	1	٢	HAND WIRE	138
ยบัร อยร	L AØBE2	1-02 + H	2	ρ̈́	HAND WIRE	138
อบีร อติร	L ADTE2	1-03 # H	1	Ê	HAND WIRE	138
មហ្នាល ២០០	L AÑ6EZ	1-04 + H	Ž	P	HAND WIRE	138
8 <u>0</u> 5 003	L ADSE2	1-05 *	. 1		TO HERE	138
อบุร ิ อดิร	L COAT2	1-06 *	2			138
BŲ̃\$ DØ3	L F04L1	1-07 *	1			138
ยบูร อย์ร	L BUSES	1-08 *	PRODUCT TO THE PRODUC			138
BŲS DĎ3		1		43=6/8		138
ខ ្ទុច ២04	L A09E1	1-01 + H	1	Ŗ	HAND WIRE	139
8US 004	L ABBE1	1-82 * H	2	P	HAND WIRE	139
Bប្ទី DØ4	L ADTES	1-03 * H	<u> </u>	P	HAND WIRE	139
8ŬS DØ4	L ANGE1	1-04 * H	2	P	HAND WIRE	139
ยบูร อดิ4	L AUSE1	1-05 *	.		TO HERE	139
BUS DØ4	L CN4N2	1-06 *	2			139
BŨS DØ4	L FRANZ	1-07 *	1 ,			139
BUS DØ4	L 80351	1-08 +				139
BUS DØ4				42=4/8		139
ខ ្ទុច ២ឆ្ទ	L AMPF2	1-01 + H	1	P	HAND WIRE	140
BŲS DØ5	L AØBF2	1-02 + H	2	P	HAND WIRE	140
BŲS DØ5	L AØ7F2	1=Ø3 + H	1,	Á	HAND WIRE	140
ยบู้ร บ0ฺ์ว	L AØ6F2	1-04 + H	2	P	HAND WIRE	140
ยบูร อยุร	L A05F2	1-05 *	<u>1</u>		TO HERE	140
ธ บูีร D0ฺ5	L CØ4P2	1-06 *	2			140
ย บู้ร บต์ร	L F04F1	1-07 *	.			140
ยบูร D0ฺร	r c0305	1-08 *				140
ยบูัร บ ตุ๋ร		1		40-0/8		140

GT40.8 RÜN NAME	AZP	ND288 VI PIN NAME	7(17) 06/ ORDER PIN	22/72 BAY - ORDER	Q	DRAM HV PG Y X	*	MEMARKS	1. • 6.2	Ha73 LENGTH	6152 EXCEPTIONS	PAGE 20 RUN NUMBER
BUS DU6	L	AØFI		1-01 +	Н		1		1.0		HAND BORD	3 9 1
BŪS DØ6	Ĺ	A 0 8 7 1		1=02 #	H		2		Ď		HAND W	41
BUS DU6	Ĩ	A07F1		1-03 4	H		1		12		HAND A C	41
BŪS DØ6	Ĩ.	AØ6F1		1=04 #	H		2 1 2 1 2		ļ.,		HAND & B	Ĩ
BUS Die	1.	AUSFI		1-05 *			1				TO HELL	. e <u>, </u>
ยนัร Dae	Ľ	CHAVE	-	1-06 *		• • • • • • • • • • • • • • • • • • • •	2					41
BUS DØ6	Ī	FØ4F2		1-07 *			ī					41
ยบิร อห่อ	•	CØ3C1		1-08 *			**					41
BUS DOG	•	Choot		1						40-0/8		141
				•						- Agricum - Agr		go i www
8US 007	L	AØ9H2		1-01 *	H		1		Ç:		HAND WELL	1.42
BUS DU7	L	ADBH2		1-02 *	H	Firm F	2		þ 3		HAND WORL	:42
BŪS DØ7	Ĺ	AU7H2		1-03 *	Н		1		٤		HAND WELL	42
BŪS DØ7	Ē	ADOHE		1=04 +	н		1 2		94		HAND WIRE	142
ยบิร กย7	į.	A05H2		1=05 *	• •		1				TO HERE	142
BUS DU7	Ĩ	CO4M2		1-06 *			1 2				£1. 1.1	142
ยบิร อย่า	Ī	FØ4HL		1-07 #			1.					145
BŪS DĖ7	- 1	803V2		1-08 #		and the second control of the second control						ું હે 🤾
ยบู้ร กตัว	•			1						40=6/8		102
8us 008		AØ9Ha		1=01 *	led.		1		F		HAND RILL	. 4.3
BŪS DV8	174	AØ8H1		1-02 *	F)		ž		b.		HAND WIRE	. 4 3
BUS DØB	be.	A07H1		1-03 *	7		1		E E		HAND WIRE	. * * * . # 3
8US DØ8	344	AØ6H4		1=04 +			‡		P		HAND WISE	143
8ÜS DØ8	i.	AØ5H1		1-05 *	П		4		Ε.		TO HERE	4 4 3
903 D08	Man 2	CD4L2		1-06 *			ۋ				IN HERE	į 43
BO2 DO8		F04K1		1-07 4			4					
8ÜS 0Ø8	<u> </u>	CØ3R1		1-08 +		-	4					143
905 DØ3	1	Chous		1-80 -						39-4/8		143
903 000								1 h mr - 4 - 14		39-4/0		1,43
BUS DU9	L	SLPBA		1-01 *	H		1		P		HAND WIRL	144
ยกิ่ะ ๒๑๑	i.	AUBJE		1-02 *	H		2 1 2		P		HAND WIRE	144
ยบัร อยู่จ	L	AØ7J2		1-03 *	H		1		P		HAND WIRE	144
BŪS DØ9	L	AD6J2		1-04 *	H		2		PPP		HAND WIRE	144
ยบัร อ ผัช	L	A05J2		1-05 +			1				TO HERE	144
ยบูร ¤ตุจ	L	C04K2	-#	1-06 *			2				• •	144
BŨS DØ9	L	CØ3V1		1-07 #								144
BÜS DW9				1	. ,					22-6/8		144
8US D10	L	AU9J1		1-01 +	Н		1		₽		HAND WIRE	145
BŪS 010	Ē	AUBJ1		1-02 *	H		5		P		HAND WIRE	145
BŪS DIØ	Ĺ	A07J1	The state of the s	1-03 +	H		· · · · · · · · · · · · · · · · · · ·		, Ģ		HAND WIRE	145
BŪS D10	Ē	AØ6J1		1-04 +	H		1 2 1		Ŕ		HAND WIRE	145
BUS DIØ	Ī	AØ5J1		1-05	1.1		1		•		TO HERE	
BÜS D10	Ī	CØ4J2		1-26 *			2				IN MEKE	145
BŪS 010	Ī	CØ351		1=07 +			4					145
BŪS DIØ	•	* * * * *		1						22-2/8		145
- - -				7						c4=4/9		145

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	GT40,B		h	IND288, V17	(17) 86	127172					1=M	AR=73	6152	PAGE 21
e r	RÜN NAME		A/P	PIN	ÖRDER	BAY -	(۵	DRAW RV PG Y X #	HEMARKS	-	LENGTH	EXCEPTIONS	RUN
				NAME	PIN	ORDER						•	••	NUMBER
à.	BUS 011								•		o		HAND WIRE	146
				A09K2		1-01		H	*		ρ ρ		HAND WIRE	146
	8US 011		Ļ	AØ8K2		1-02		H	4		- F			
	BÜS D11		🛌	AØ7K2		1-03		H	<u>.</u>		٢		HAND WIRE	146
	805 D11		L	AØ6K2		1-04	*	H	4		۲		HAND WIRE	146
	BUS D11	THE RESIDENCE OF COMMENTS OF THE PROPERTY OF THE PARTY OF	L	AØ5K2		1-05			1				TO HERE	146
*	ลกิร กัว		L	CØ4H1		1-06			2					146
	BUS D11		L	CØ3U1		1-07	#							146
	BŪS DI1					1						22-4/8		146
*	BUS 012	The second section of the section of the second section of the section of the second section of the secti		A09K1		1-01	A 1	Н	···•	* *	μ		HAND WIRE	147
•	BŪS D12		1	ADBK1		1-02			9		è		HAND WIRE	147
	BŪS 012	and the other state of a field of the owner and the state of the state		ADTKI		1-02		<u>.</u>			5		HAND WIRE	147
*	8ÚS 012		اسا					H	* 3		é		HAND WIRE	147
T	BŪS DIZ		<u>.</u>	AØ6K1		1-04		H	•		ŗ		TO HERE	147
	BUS 012		Ŀ	A05K1		1-05			2				IN MENE	147
*	8US D12		Ļ	CØ4H2		1-06			4					
			L	DØ3R1		1-07	•							147
	BŪS D12	The terminal constitution of the con-				1				7 1 W 10 10 10 W 10 W 10 W 10 W 10 W 10		24-6/8		147
#	BUS 013		L	AU9L2		1-01	*	H	2		P		HAND WIRE	148
	BŪS 013		ī	AØ8L2		1-02		H	1		P		HAND WIRE	148
	ยบิร การ		,	AØ7L2		1-03		Ħ	2		ė		HAND WIRE	148
÷	ยบิร ก็วิร		•	ADOLZ		1-04		H			څ		HAND WIRE	148
	8ŪS D13		-	AØ5L2		1-05		П	* 9		٠,		TO HERE	148
	BUS 013	The state of the s		CØ4F2	*	1-06			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			in dede	148
ė.	805 D13		-	EØ3E1		1-07			*					148
	8US DI3	0.00	See.	E NOET		7-6/	•					26-0/8		148
	582 019					1						20-476		140
**	BUS D14		L	A09L1		1-01	*	Н	1		₽		HAND WIRE	149
	BUS D14		L	AØ8L1		1-02		Н	2		ė		HAND WIRE	149
	8US D14	PROPERTY AND ADMINISTRATION OF THE PARTY OF		AØ7L1		1-03		H H	The continuous and the continuous section of the continuous contin		ŕ		HAND WIRE	149
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Ĉ.	GŢ4Ø,B RŪN NAMĘ	HND288,V17(17) Ø A/P PIN ÖRDER NAME PIN	5/22/72 BAY - Q DRAW RV PG Y X ORDER	± MEMARKS 1=MAR=73 ENGTH	6152 PAGE 22 EXCEPTIONS RUN NUMBER
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C	BŪS MŠYN BŪS MŠYN BŪS MŠYN	L 807V1 L 808V1 L 809V1	1-04 * H 1-05 * H 1-06 *	P P	HAND WIRE 154 HAND WIRE 154 TO HERE 154
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4.	CONA ENAB ALU	н	00851		1-01				1				173
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*	CONA ENAB RCD PSW	Н	FØ9E1		1-02	»			••				174
	CONA ENAB RCD PSW		100.00.000		1						7-0/8		174
	CONA ENAB SWICH REG	L	DØ8F1		1-81				1				175
	CONA LNAB SWICH REG	L	FØ9V1		1-02	•							175
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y	CONA LOAD XMIT PSW				1,						7-0/8		179
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ter	CONB INH +1	L	FØ9K1		1-02	+							180
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€	CONB RUN LAMP		·		1						7-4/8		182
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7	CONB SPA 01 CONB SPA 01 CONB SPA 01	H	CØ872 CØ9C1		1-01 1-02 1					1		4-0/8	184 184 184
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Ç	CONB SPA 03 CONB SPA 03 CONB SPA 03	H	CØSR2 CØ9A1		1=01 1=02 1					1		4-0/8	186 186 186
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C	CONE BUT DESTINATION CONE BUT DESTINATION	H	E09E1 F08C1		1-01	*				1		5-0/8	191 191 191
C	CONE BUT DESTINATION CONE BUT DESTINATION	L	DØ9H1 EØ8J1		1=01	#				1		5-2/8	192 192 192
	CONE BUT IR DECODE CONE BUT IR DECODE CONE BUT IR DECODE		BØ1R2 DØ9V2 EØ8V2		1-01 1-02 1-03	*				1		44-440	193 193 193
L	CONE ENAB UNARY CONE ENAB UNARY CONE ENAB UNARY CONE ENAB UNARY	L	EØ8R2 EØ9N1		1 1-01 1-02 1		***************************************			1		14-6/8 2-6/8	193 194 194 194

GT40.B RÛN NAME A/	HND288.V17(17) 06/22/72 PPIN ORDER BAY NAME PIN ORDER	O DRAW RV PG Y X & MEMARKS	1=MAR=73 6152 PAGE 27 LENGTH EXCEPTIONS RUN NUMBER
CONE JMP OR JSR L CONE JMP OR JSR L CONE JMP OR JSR	E 08K2 1-01 E 09M2 1-02	the contract of the contract o	195 195 3-0/8 195
CONE HOD SER L CONE HOD SER L CONE HOD SER	F08A1 1-01 F09P2 1-02		196 196 4-2/8 196
CONE XMIT SER L CONE XMIT SER L CONE XMIT SER	F 0881 1-01 F 09M2 1-02	a service and a service of the servi	197 197 3=6/8 197
CONF ALU MODE H CONF ALU MODE H CONF ALU MODE	1 009R1 1-01 1 50802 1-02		198 198 3-6/8 198
CONF ALU SØ L CONF ALU SØ L CONF ALU SØ	D09R2 1-01 E0801 1-02		199 199 4-0/8 199
CONF ALU S1 L CONF ALU S1 L CONF ALU S1	D09P1 1-01 E08E2 1-02	•	200 200 4-0/8 200
CONF ALU 52 L	. 009P2 1-01 . E08F2 1-02	* 1	201 201 4-2/8 201
CONF ALU S3 L CONF ALU S3 L CONF ALU S3	D09N1 1-01 E08E1 1-02	1	202 202 4-2/8 202
CONF AUX BYTE H CONF AUX BYTE H CONF AUX BYTE		The state of the s	203 203 5-6/8 203
CONF AUX CONTROL L CONF AUX CONTROL L CONF AUX CONTROL	E0852 1-01 F0981 1-02		204 204 3-6/8 204
CONF CIN H CONF CIN H CONF CIN			205 205 4-4/8 205

CUNF MPC 00	GT4Ø.B RÛN NAME	HND2BB.V17(17) Ø6/22/ A/P PIN ÖRDER BAY NAME PIN ORD	- Q DRAW RV PG Y X	1-MAR-73 2 KEMARKS LENGTH	6152 PAGE 28 Exceptions Run Number
CONF MPC 88	CONF MPC 00	L BØ1P2 1-0			206
CONF MPC 08		L EÛ9L1 1-0		?	206
CONF MPC 01	CONF MPC 00	L FØ8P2 1-0	5 •		206
CONF MPC 01	CONF MPC 00	1		17-0/8	206
CONF MPC 01	CONF MPC Ø1	L 801V1 1-0			207
CONF MPC 02	CONF MPC 01	L E09P1 1-0		2	207
CONF MPC 82	CONF MPC 01	L F08N2 1=0	∮ 6		207
CONF MPC 02	CONF MPC 01	1		16-0/8	207
CONF MPC 02	CONF MPC 02	L B01N1 1-8		L	208
CONF MPC 03	CUNF MPC 02			2	208
CONF MPC 03	CONF MPC 02	L FØ8M1 1-0	§ •		208
CONF MPC 03	CONF MPC 02	1	W-T-1	17-0/8	208
CONF MPC 03	CONF MPC 03	L 801K2 1-0	. •	L	209
CONF MPC 03 CONF MPC 04 CONF MPC 04 CONF MPC 04 CONF MPC 04 CONF MPC 04 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 07 CONF	CONF MPC 03	L E09D1 1-0		2	209
CONF MPC 03 CONF MPC 04 CONF MPC 04 CONF MPC 04 CONF MPC 04 CONF MPC 04 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 07 CONF	CONF MPC Ø3	_ FØ8K1 1-0	* ************************************		209
CONF MPC 04	CONF MPC 03			17=0/8	209
CONF MPC 04	CONF MPC 04	L 801U2 1=0	. •		210
CONF MPC 04			. *		210
CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 05 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 06 CONF MPC 07 CONF	CONF MPC Ø4				210
CONF MPC 05	CONF MPC 04		The second secon	15-6/8	210
CONF MPC 05	CONF MPC 05	L 801T2 1-0	. *		211
CONF MPC 05 1	CUNF MPC Ø5	L E0981 1-0			211
CONF MPC 05 1	CUNF MPC 05	L FØ8N1 1-0	5 🐞		211
CONF MPC 06	CONF MPC 05	Ĩ	The second secon	16=4/8	211
CONF MPC 06	CONF MPC 06	L B01C1 1=0	. * 1		212
CONF MPC 06 1 1-01 * 21 CONF MPC 07	CONF MPC Ø6	L E09A1 1-0	? •		212
CONF MPC 06 1 1-01 + 1 21 CONF MPC 07	CONF MPC 06	L FØ8L1 1-0	• •		212
CONF MPC 07	CONF MPC 06			18-0/8	212
CONF MPC 07	CONF MPC 07	L 801J1 1-0	The second control of the second control of		213
CONF MPC 07 L F08M2 1-03 * 21 CONF MPC 07 1 17-2/8 21 CUNF SPARE L E08A1 1-01 * 1 CUNG BBOT H D08S1 1-01 * 1	CONF MPC 07				213
CONF MPC 07 1 17-2/8 21 CUNF SPARE L E00A1 1-01 + 1 CUNG BBOT H D0051 1-01 + 1	CUNF MPC 07				213
CUNG BBOT H 00851 1-01 + 1	CONF MPC 07	1		17-2/8	213
	CUNF SPARE	L EDBA1	ent communication and the second seco		1-PIN RUN 214
	CUNG BBOT	H D0851 1=0	. • 1		215
一个女子,我们就是一个女子,我们就是一个女子的女子,我们就是一个女子的女子,我们就是一个女子,我们就是一个女子,我们就是一个女子,我们就是一个女子,我们就是一个	CONG REOT			•	215
	CUNG BBOT	1		6=0/8	215

&	GT40.B RÜN NAME	HND288.V1 A/P PIN NAME	7(17)	RAM RV PG Y X & MEMARKS	1-MAR-73 6:52 Length except	PAGE 29 IONS RUN NUMBER
•	CONG BMODE 00	H CØ9V1	1=01 • 1=02 •	1		216 216
•	CONG BMODE ØØ	H D09A1	1 1=01 *	1	7-0/8	. 216 217
F	CONG BMODE Ø1	H EØ8M1	1-02 *	• • • • • • • • • • • • • • • • • • • •	6-2/8	217 217
7	CONG USTOP	H EÑSHS	1-01 * 1-02 *	1		218 218
	CONG BETOP	L EØBR1	1-01 +	1 · · · · · · · · · · · · · · · · · · ·	7-4/8	218 219
F	CONG CKOFF	L FØ9J1	1-02 * 1		4-4/8	219 219
•	CONG ENAB PSW CONG ENAB PSW CONG ENAB PSW	H COPR2	1-01 * 1-02 * 1		7-2/8	220 220 220
•	CONG ENAB SPL CONG ENAB SPL CONG ENAB SPL	L C09F2	1-01 * 1-02 * 1	1	8=4/8	221 221 221
	CONG ENAB SPR	L C09E2 L E08L1	1-01 + 1-02 +	\$		222 222
•	CONG ENAB SPR	L 008H2	1 = 01 *		8-4/8	222 223 223
ē.	CONG LOAD PSW	L DØ9M2	1-02 *		3-0/8	223
<i>p</i> .	CONG ROM ALEG 00 CONG ROM ALEG 00 CONG ROM ALEG 00	L E08P2	1-01 *	1	3-0/8	224 224 224
	CONG SP WRITE CONG SP WRITE CONG SP WRITE	H E08F1 H F09C1	1-01 * 1-02 * 1	1	5-0/8	225 225 225
**	CONH PROC INIT CONH PROC INIT CONH PROC INIT	H D09M1 H F08T2	1-01 *		8=2/8	226 226 226
•	CONH PROC INIT	L D09L2 L F08S1	1-01 * 1-02 *	1	8=4/8	227 227 227
	프랑크닷 및으로프 #변경실	*** ·	e e e e e e e e e e e e e e e e e e e	and the second s	₩ 17 ₩	40

	GI40.8 RŪN NAME		PIN	17(17) Ø6 ORDER Pin	/22/72 BAY = ORDER	Q DRAM ŘV P <u>G</u> X	X \$	HEMARKS 1=MAR=73 LENGTH	EXCEPTIONS R	E 30 UN MBER
	CONJ MAN CLK CONJ MAN CLK CONJ MAN CLK	Ĺ	801V2 F08V1		1-01 * 1-02 * 1		1	14-2/8	2	28 28 28
	CÓNÍ ŘBÓC CĽOČK CÓNÍ ŘBOC CĽOČK CÓNÍ ŠBOC CĽOČK	н Н	CØBN1 DØ9L1	***	1-01 * 1-02 *		, 1	5-0/8	2	29 29 29
<u> </u>	CONT Z CTK ON CONT Z CTK ON CONT Z CTK ON	L	801U1 F08U2		1-01 * 1-02 *		1	14-4/8	2	30 30 30
V.	CÓNT ÑUĞ BEOC ÇTOCK CONT ÑUĞ BEOC CTOCK CONT ÑUĞ BEOC CTOCK	Ħ	DØ8V1 FØ9L1		1-01 * 1-02 *		1	6=6/8	2	31 31 31
	CONSOLE CONT CONSOLE CONT CONSOLE CONT		C09\$2 F08H2	a se describer e es	1-01 * 1-02 * 1			9=4/8	2	32 32 32
ν,	CONSOLE DEP CONSOLE DEP CONSOLE DEP	L	CØ9M1 FØ8D2		1-01 * 1-02 * 1		1	9-4/8	2	33 33 33
<u> </u>	CÔNŽOȚE EXAM CÔNŽOȚE EXAM CÔNŽOȚE EXAM	L	C09T2 F08F2		1-01 * 1-02 *		1	9=2/8	2	34 34 34
L L	CONSOLE LOAD CONSOLE LOAD CONSOLE LOAD	- L	C09U2 F08J1	THE LOCAL DISEASE OF THE LOCAL	1-01 + 1-02 + 1		, 1	9=4/8	2	35 35 35
C	CONSOLE START CONSOLE START CONSOLE START	L	C09M2 F08E2		1-01 + 1-02 + 1		1	9=6/8	2	36 36 36
C	CONSOLE STOP CONSOLE STOP CONSOLE STOP	L	C0951 F08H1		1-01 * 1-02 *		1	9-4/8	2	37 37 37
	CR1		CØ4R1						1-PIN RUN 2	38
	CSC CHARACTER;CR= CSC CHARACTER;CR= CSC CHARACTER;CR=	H	CØ2J2 EØ3\$2		1-01 * 1-02 *		1,	8-6/8	2:	39 39 39

r	CSC CLR X CSC CLR X CSC CLR X	H DØ1) H FØ3,	(2 1=01			
	Car Cris X	H FØ21		• 2		240 240 240
	CSC CLR X	L 001	1)1 1-01		11-4/8	240
	CSC CLR X	, FØ2			9=4/8	241 241
	CSC CNTRL CHAR DONE CSC CNTRL CHAR DONE CSC CNTRL CHAR DONE	H DØ3(6=2/8	242 242 242
•	CZC CH.SI	L AØ2		•	4-4,6	243
	CRC CH'RI	r EÓ3(1-02		11-6/8	243 243
•	CSC L.F. CSC L.F.	H E02			6-0/8	244 244 244
	CSC SHIFT INTH CSC SHIFT INTH CSC SHIFT INTH	L 003			8-4/8	245 245 245
	DCR 0-3 (0) DCR 0-3 (0) DCR 0-3 (0)	H			7-4/8	246 246 246
	DCR 4=7 (6) DCR 4=7 (6) DCR 4=7 (6)	H 6031			7=4/8	247 247 247
•	DCR 8,9 (0) DCR 8,9 (0) DCR 8,9 (0)	H C031			7-2/8	248 248 248
	DOR DIS ØK IN DOR DIS ØK IN DOR DIS ØK IN	H D011		The state of the s	7-0/8	249 249 249
*	DCRØ1 OÚT DCRØ1 OÚT DCRØ1 OÚT	H FØ11 H FØ35			4-0/8	250 250 250
*				•		

G 1 4 Ø . E		Ĥ	ND288, V1	7(17) 06	/22/72							1-MAR=73	6152	PAGE 32
e KŨN N	AME	A/P	PIN NAME	ORDER PIN	BAY		• •	RV PG	Y. X	±	ĶEMAŖKS	LENGTH	EXCEPTIONS	RUN Number
● DCRØ2	DUT	н	FØ1V2		1-01	*				1				251
DCRUZ		H	FUST2		1-02									251
DÇRÛZ	דֿטָּֿס	•			1							3=4/8		251
DCRUS	DUT	н	FØ1U2		1-01	*				1				252
DCRØ3		н	FØ3N2		1-02									252
● DÇRØ3					ī							3-6/8		252
DCRØ4	OUT	н	FØ1C1		1-01	*				1				253
■ DÇRØ4		н	FØ3P2		1-02									253
DÇR04	DUT				1							4-2/8		253
■ DCRØ5	пит	н	EØ1K1		1-01					1				254
DCR05		H	FØ181		1-02					•				254
DÇRÛS		•	, 5141		1							4-2/8		254
	MUX ØF	н	BØ101		1=01					1				255
•	MUX ØF	H	COSKS	-	1-02					2				255
	MUX Ø	Ĥ	COONS		1-03					-				255
	MUX Ø6		04.14%		1	•						10-4/8		255
■ DPA A	MILLY Ø.*	н	BØ1F1		1-01					1				256
	MUX Øs	H	C08B1		1-01					2				256
	MUX Øs		CØ9P1		1=03	Ţ.,				-				256
	MUX Ø		00711		1	•						10-6/8		256
DPA A	MUX 09	н	BØ1L1		1-01					1				257
-	MUX Ø2	H	CØ8C1		1-02					2				257
DPAA	MUX Ø2	Ĥ	COPPZ		1-03					~				257
DPA A	MUX Ø2	**			1							10-4/8		257
C DPA A	MUX Ø8	н	801P1		1-01					1				258
-	MUX ØS	H	CØSH2		1-02					ž				258
	MUX ØE	Ĥ	C09R1		1-03	*				-				258
DPA A	MUX Ø8	**	0.511.7		1	_						10-2/8		258
DPH A	MUX Ø#	н	B01M1		1-01					1				259
	MUX Ø4	H	CØ8D1		1-01					2				259
	MUX Ø*	Ä	00975		1-03					4				259
● DÊB A	MUX آ	, ,	17 # - # 6		1	~						12-6/8		259
OPR A	MUX Øb	н	80152		1-01	<u>.</u>								260
	MUX ØF	H	C08D2		1-01					* 2				
	MUX Ø5	Ë	DØSKS		1-03					2				26Ø 26Ø
	MUX Ø	"1	CHAILE		1	**						12-4/8		260 260
• "					•							16-4/0		C O D

_	G I 40 . B		HND288.V1	7(17) 06	/22/7	2						1-MAR=73	6152	PAGE 33
*	RÛN NAME	A/P	PIN	ORDER	BAY	•	Q DRAW	RV PG Y	X	ź	REMARKS	LENGTH		RUN
	Manager and server a server and s		NAME	PIN	ORDE	₹					· · · · ·			NUMBER
•	DPB AMUX Ø6	н	BØ1K1		1-01			(1				261
-	DPB AMUX Ø6	Н	CØ8E1	*****	1-02					2				261
	DPB AMUX Ø6	H	00911		1-03					•				261
	DPB AMUX Ø6				1							12-4/8		261
	DPB AMUX 07	— н	BØIR1		1-01	ш								262
	DPB AMUX Ø7	Ĥ	CØ8F1		1=02					*				262
•	DPB AMUX Ø7	. H	DØ9K1		1-03					4				262
	DPB AMUX Ø7	п	DESKT		1-80	-						12-2/8		262
	- 1 11				+							16-4/0		202
	DPC 8=15=0	H	00881		1-01	*				1				263
_	DPC 8-15=Ø	Н	DØ981		1-02									263
	DPC 8=15=0		• • •		1							2=6/8		263
	DPC AMUX Ø8	н	801E1		1-81					1				264
•	DPC AMUX Ø8	H	COSLS		1-02					ž				264
	DPC AMUX Ø8	Ĥ	CØ9J2		1-03	#				-				264
_	DPC AMUX Ø8				1							10-4/8		264
					•									,
	DPC AMUX 09	Н	BØ1F2		1-01	4	••			1				265
_	DPC AMUX Ø9	Н	CASES		1-02					2				265
•	DPC AMUX 09	Н	CØ9K1		1-03	*								265
	DPC AMUX Ø9				1							10-2/8		265
•	DPC AMUX 10	н	BØ1M2		1-01					1				266
	DPC AMUX 10	Н	CØBM2		1-02					ž				266
	DPC AMUX 10	Ĥ	CØ9K2		1-03					_				266
	DPC AMUX 10				1							10-0/8		266
	DPC AMUX 11	н	BØ1S1	<u>.</u>	1-01			* ********* · · · · · · · · · · · · · ·						267
-	DPC AMUX 11	Ĥ	CUBA1		1-02					Ž				267
	DPC AMUX 11	H	côpli		1-03					•				267
	DPC AMUX 11	"	00.44		1	,-					•	10-0/8		267
~					•									
•	DPD AMUX 12	H	BØ1J2		1-01					2				268
	DPD AMUX 12	Н	CABE 5		1-02					1				268
	DPD AMUX 12	H	CØ9F1		1-03	*								268
	DPD AMUX 12				1							9-4/8		268
•	DPD AMUX 13	Н	BØ1H2		1-01					2	-			269
	DPD AMUX 13	H	CUBJ2		1-02					1				269
	DPD AMUX 13	H	C09H1		1-03					=	acid w an exerc			269
1	DPD AMUX 13	,			ī							9-4/8		269
					_									

GŢ4Ø.B R <u>u</u> n name	A/P	HND288.V1 PIN NAME	7(17) Ø6/22/72 ORDER BAY - PIN ORDER	G	DRAM RV PG Y	×	ź	HEMARKŞ	1-MAR-73 LENGTH	6152 PAGE 34 EXCEPTIONS RUN NUMBER
DPD AMUX 14	н	80102	1-01	*			2			270
DPD AMUX 14	н	CØ8F2	1-02				1			270
DPD AMUX 14	н	CØ9H2	1-03	*						270
DPD AMUX 14			1						9=6/8	270
DPD AMUX 15	Н	BØ1N2	1-01	•			1			271
DPD AMUX 15	, н	CØBN2	1-02	•			2			271
DPD AMUX 15	H	00911	1-03	•						271
DPD AMUX 15			1						10-0/8	271
DPE PSW 05(0)	н	CØ8V1	1=01				1			272
DPE PSW 05(0)	Н	00902	1-02	*	AND AND AND AND AND AND AND AND AND AND					272
DFE PSW 05(0)		•	i						3-6/8	272
DPE PSW 06(0)	н	C0851	1-01	*			1			273
DPE PSW 06(0)	H	D09C1	1-02	*						273
DPE PSW 06(0)			1	100					3-6/8	273
OPE PSW 07(0)	н	CØ8R1	1-01	*			1			274
DPE PSW 07(0)	Ĥ	D09D1	1=02							274
DŘE PŠW 07(0)		- · ·	1						4-0/8	274
DEE T DEL(0)	н	FØ8S2	1-01				1			275
DPE T DEL(Ø)	Н	FØ952	1=02				_			275
DPE T DEL(0)			i						2=6/8	275
DPF IH 00(1)	н	CØ8H1	1-01	•			1			276
DPF IR 00(1)	H	D09U2	1=02				₩.			276
DEF IH 00(1)			1						6-6/8	276
DPF IH Ø1(1)	н	CØBL1	1=01				1			277
DPF 1H 01(1)	Ĥ	DØ9T2	1-02				-			277
DPF IR Ø1(1)		-, ,	1						6-2/8	277
DPF [H 02(1)	н	CØ8P1	1-01				1			278
DPF IH 02(1)	H	DØ9U1	1-02		·					278
DPF IH 02(1)			i						5-6/8	278
DFF IH Ø6(1)	н	CØ8-V2	1=01	_			1			279
DPF IR 06(1)	H	D09S1	1-02				~			279
DPF 1H 06(1)		04.44	i						4-6/8	279
DFF IR 07(1)	н	CØ8K1	1-01				1			280
DPF IR 07(1)	Ä	00982	1-02				•			280
DPF IR 07(1)	**	U	1	**					6-2/8	280

GŢ40.B Hûn name	A/P	HND288,V17(17) Ø Pin Örder Name Pin	6/22/72 BAY = ORDER	Q	DRAW RV PG Y X	#	HEMARKS	1-MAR#73 Length	6152 PAGE 35 EXCEPTIONS RUN NUMBER
DEE IH 09(DEE IH 09(DEE IH 09(1) H	CUBM1 EØ9F1	1-01 * 1-02 * 1			1		7-2/8	281 281 281
DPF ROTACE DPF ROTACE DPF ROTACE	H H	EUBN1 Fû9\$1	1-01 *		A STATE OF THE STA	1		5-6/8	282 282 282
DPG BYTE DPG BYTE DPG BYTE	L	D08L1 E09K1	1-01 * 1-02 *			1		5 - 4/8	283 283 283
DPG CAL DE DPG CAL DE DPG CAL DE	ST	EØBU1 EØ9M1	1-01 * 1-02 *			1		3-2/8	284 284 284
DPG DIS AL DPG DIS AL DPG DIS AL	USBITS H	E08J2	1-01 *		e e e e e e e e e e e e e e e e e e e	1	Section 1 - The Company of March 1 - Company	2-4/8	255 255 285
DPG EMT DPG EMT DPG EMT	.	FØ8E1 FØ9U2	1-01 *			1	and a superior to the	4=2/8	286 286 286
DPG ENAB N DPG ENAB N DPG ENAB N	ION MOD H	EØ8L2 Fø9T2	1-01 * 1-02 *			1		6=0/8	287 287 287
DPG JMP OF DPG JMP OF DPG JMP OF	JSR L	D08H1	1-01 * 1-02 *			1		5=0/8	288 288 288
DPG MOVE DPG MOVE	<u>.</u>	E09H1 F08K2	1-01 + 1-02 + 1			1,		5=4/8	28 9 28 9 289
DPG RCD IN DPG RCD IN DPG RCD IN	.τ Ľ	FØ8R2 FØ9R2	1-01 * 1-02 *			1		2=6/8	290 290 290
DPG RIS DPG RIS DPG RIS	L	E0952 F08F1	1-01 * 1-02 *			1		4-2/8	291 291 291
DPG THAP DPG TRAP DPG TRAP	L	FØ8D1 FØ9U1	1-01 * 1-02 *			1,		4-2/8	292 292 292

GT40,8 Rûn name		ND288,V1 PIN NAME	7(17) Ø6/ ORDER PIN	22/72 BAY - ORDER	G	DRAY	, BA bā	Y	X		REMARKS	1-M	ARÀ73 LENGTH	6152 Exceptions	PAGE 36 RUN NUMBER
DPG WAIT DPG WAIT DPG WAIT	L	DØ9V1 FØ8R1		1-01 * 1-02 *						1			7=2/8		293 293 293
DPH RUR ENB	L	FØ9K2												1-PIN RUN	294
DPH RE -15	L	FØ9R1												1-PIN RUN	295
DPH 50 -15	L	FØ9J2												1-PIN RUN	296
DPH SER Ø	н	DØ9F1												1-PIN RUN	297
DPH SER Ø	L	FØ9E2												1-PIN RUN	298
DPH SER IN	L	FØ9N1									,			1-PIN RUN	299
DPH SI =15	L	FØ9P1												1=PIN RUN	300
DPH XMIT INT DPH XMIT INT DPH XMIT INT	Ĺ	FØ8P1 FØ9N2		1-01 *						1			3=2/8		301 301 301
FØ4E1 FØ4E1 FØ4E1		FØ4E1 FØ4V2	e was e	1-01 *						1			4=2/8		302 302 302
F 04L2 F 04L2 F 04L2		FØ4L2 FØ4R1		1-01 *						1			3-0/8		303 303 303
F04M2 F04M2 F04M2		FØ4M2 FØ4S1		1-01 *						1			3-0/8		304 304 304
FØ4P2 FØ4P2 FØ4P2		FØ4F2 FØ4\$2	the files frames or a files for granding g	1-01 *		-grange - radicingston gan	and (1869) gal ^{an} Marinin (a.e., 1869) da	olide ann a thurst stell the board of	marine some 1	1	- Anna Carlo		2-4/8		305 305 305
F 04R2 F 04R2 F 04R2 F 04R2		FØ4D2 FØ4R2 FØ4N1		1-01 * 1-02 * 1-03 * 1	•					2			6=2/8		306 306 306 306
FØ5A1 FØ5A1 FØ5A1		FØ5A1 FØ6A1		1-01 + 1-02 +	. ,		Andrew Transfer			1		Ė)2-6/8	HAND WIRE To here	307 307 307

GT40,B RÙN NAME	HND288.V: A/P PIN NAME	17(17) 06/22/72 ORDER BAY - PIN ORDER	G	DRAW RV PG Y X	4	REMARKS	MARE73 Length	6152 EXCEPTIONS	PAGE 3 RUN NUMBE
F	FØ581 FØ681	1-01 *			1	ę	2-6/8	HAND WIRE TO HERE	308 308 308
FØ5U1 FØ5U1 FØ5U1	FØ5U1 FØ6U1	1-01 * 1-02 * 1			1	P	2-6/8	HAND WIRE To Here	309 309 309
FØ5V1 FØ5V1 FØ5V1	F05V1 F06V1	1-01 4 1-02 4			1	<u>P</u>	2-6/8	HAND WIRE TO HERE	310 310 310
FS CLK	L FØ9H1							1-PIN RUN	311
FS CLK DISAB	L F09H2							1-PIN RUN	312
FS SER IN	L F09M1	, , , , , , , , ,						1=PIN RUN	313
GW INT 00 GW INT 00	L A01L2 L B02U1	1-01 * 1-02 *)		1		6-0/8	•	314 314 314
GM INT 01 GM INT 01 GM INT 01	L A01M2	1-01 4 1-02 4 1			1		6-6/8		315 315 315
GM INT 02 GM INT 02 GM INT 02	L AU1R2 L BU2P1	1-01 * 1-02 *			1		5-0/8		316 316 316
GM INTENSITY OUT GM INTENSITY OUT GM INTENSITY OUT	L AØ1T2 L BØ2L2	1-01 4			1	IMISTED PAIR	4-4/8	HAND WIRE H TO WHERE	317 317 317
GM INTERRUPT GM INTERRUPT GM INTERRUPT	H A02P1 H D03H1	1-01 * 1-02 *			1		9-6/8		318 318 318
GM L.P.INTERPT ENA (Ø) GM L.P.INTERPT ENA (Ø) GM L.P.INTERPT ENA (Ø)		1-01 4 1-02 4			1		10-4/8		319 319 319

GŢ40.H RŪN NAME	A/P	IND288,V1 PIN NAME	7(17) Ø6 Order Pin	122/72 BAY - ORDER	0	DRAM RV PG Y X	*	REMARKS	1-MAR373 Length	6152 EXCEPTIONS	PAGE 38 RUN NUMBER
GND 01-03		A01C1		1-01 *	Н		2		é	HAND WIRE	320
GND 01-03		AØ1T1		1-02 *	Н		1		è	HAND WIRE	320
GND 01-03		AØ1C2		1-03 *	Н		2		Ď	HAND WIRE	320
GND 01=03		AØ3C2	AØ2C2	1-04 *	Н		1		P	HAND WIRE	320
GND 01-03		AØ2C2	Total Control of the	1-05 +	H		2	24 ANG		HAND WIRE	320
GND 01-03		ADSES		1-06 *	H		1	ZAAWG		HAND WIRE	320
GND 01-03		C0383		1-07 +	H		2	24AWĞ		HAND WIRE	320
GND 01-03		COSNS	A0311	1-08 *	Н		1	24AWG		HAND WIRE	320
GND 01-03		A0371	80382	1-09 *	Н		2	24 AWG		HAND WIRE	320
GND 01-03		80382		1-10 *	Ħ		1		P	HAND WIRE	350
GND 01-03	The second of th	BØ3C2		1-11 *	H		2			HAND WIRE	320
GND 01-03		B02C2		1-12 *	H		7		ē	HAND WIRE	320
GND 01-03		B01C2		1-13 *	H		4		ř	HAND WIRE	320
GND 01-03		A0211		1-14 #	H		1		F	HAND WIRE	320
GND 01-03		B0211		1-15 *	H		4		. <u>F</u>	HAND WIRE	320
GND 01-03		80171 80371		1-16 +	H		- L		ř Š	HAND WIRE HAND WIRE	320
GND 01-03 GND 01-03				1-18 *	<u>- 5</u> -		<u></u>	are same a	-	HAND WIRE	320
GND 01-03		C05C5 C03C5		1-19 *			÷		Ë	HAND WIRE	320 320
GND 01-03		CØ1C2					4		r B	HAND WIRE	320
GND 01-03		CØ1T1		1-20 *	П				<u> </u>	HAND WIRE	320
GND 01-03		CURTI		1-22			1		á	HAND WIRE	320
GND 01-03		CØ3T1		1=23 *			2		Ď	HAND WIRE	320
GND 01-03		DØ3C2		1-24	-6-			AND THE PARTY.		HAND WIRE	320
GND Ø1-Ø3		DØ2C2		1-25 +			2		p p	HAND WIRE	320
GND Ø1=03		00102		1-26 +			1		è	HAND WIRE	320
GND 01-03		DØ1T1		1-27 *	H		2		ģ	HAND WIRE	320
GND 01-03		00211		1-28 *	H		7		þ	HAND WIRE	320
GND 01=03		00371		1-29 *	H		Ž		ρ̈́	HAND WIRE	320
GND 01-03		EDST1	· · · · · · · · · · · · · · · · · · ·	1-30 +	 		ī	A CONTRACTOR OF STREET	· • • · · · · · · · · · · · · · · · · ·	HAND WIRE	320
GND Ø1=Ø3		EPZT1		1-31 *	H		Ž		è	HAND WIRE	320
GNO 01-03		E01T1		1-32 +	Ĥ		- 1 - · ·		Ρ̈́	HAND WIRE	320
GND Ø1-Ø3		FØ1C2		1-33 *	H		Ž		P	HAND WIRE	320
GND 01-03		FØ2C2		1-34 +	Ĥ		1	A PART COLOR OF THE PART COLOR	Ÿ	HAND WIRE	320
GND 01-03		FØ3C2		1-35 +	H		2		Ρ̈́	HAND WIRE	320
GNO 01-03	The second second second second second second second	FØ311		1-36 +	Ħ		1		p	HAND WIRE	320
GND 01-03		F0271		1-37 *	Н		Ž		Ρ́	HAND WIRE	320
GND 01-03		F0171		1-38 +	H		1		P	HAND WIRE	320
GND 01-03		EØ102		1-39 *	Н		2		P	HAND WIRE	320
GND 01-03		EØSCS		1-40 +	H		1		P	HAND WIRE	320
GND 01-03		E0302		1-41 *	H		2		P	HAND WIRE	320
GND 01-03		E04A1	_	1-42 *	H		1		P	HAND WIRE	320
GND 01-03		EØ402		1-43 +	H		2		P	HAND WIRE	320
GND Ø1-03		FØ4T1		1-44 4	H		•		P.	H TO WHERE	320
GND 01-03				1					151-2/8		320

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T40.B ŪN NAME		HND288.V17 A/P PIN NAME	ORDER Pin	BAY - ORDER	Q	DRAW	ŖV P	<u>G</u> Y	X	.	HEMARKS	1=M	AM#73 LENGTH	EXCEPT!	ONS	RUN RUN UMBI
ND 04-06		AØ682		1-01 *	н					2		P		HAND WI	RE	321
ND 04-65		AØGCS		1-02 *	H					1,		P		HAND WI		321
ND 04-65		ADSB2		1-03 *	H					2		P		HAND WI		321
ND 04-05		A05C2		1-04 *	Н					1		P		HAND WI		321
ND 04-06		AØ4C2		1-05 *	H					2		ê		HAND WI		321
ND 04-05		A0571		1-06 +	H					1		į.		HAND WI		321
ND 04-04		A0551		1-07 *	H					2		Pr D		HAND WI		321
ND 04-04		A05R1		1-08 *	H					1		P D		HAND WI		321
ND Ø4=Ø5		A05P1		1-09	Ħ					2		Ë		IW DUAH		321
ND 04-05		A05N1		1-10 *	M					+		Ë		-		321
	and the second s	AØ6P1		1-11 *	Ħ.					4		ř		IW QUAH		321
ND 04-04 ND 04-05		AØ6N1		1-12 *	H					<u>.</u>		5		HAND WI		321
ND 04-04		A06R1 A06S1		1=13 *	- 5					4		ř		HAND WI		321
ND Ø4-Ø5				1-14 +						*		Ď		HAND WI		321
ND 04=05		5790A		1=15 *						1		وَ		HAND WI		321
NO 04-06		AU6T1 AU5V2		1=16 +	7 L					2		á		HAND WI		322
ND 04-06	A STATE OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AS A PERSON NAMED A PERSON NAMED AS A PERSON NAMED A PERSON NAMED A PERSON NAM	80582		1-18 *						1		á		HAND WI		32
ND 04-06		BØ5C2		1-19 *						2		رة ا		HAND WI		32
ND 04-06	A Committee of the Comm	B04C2		1-20 +	- 2					-		٥		HAND WI		32
ND Ø4=Ø6		B05E1		1-21 *						9		à		HAND WI		32
ND Ø4-Ø6		BØ5D1		1=22 +	ᄪ					1		Š		HAND WI		32
ND 04-06		806£1		1-23 *						2		þ		HAND WI		32
ND 04-06		806D1		1-24 +						-7		ģ		HAND WI	1	32
ND 04-04		806C2		1-25 *	<u> </u>					5		þ		HAND WI		32
ND 04-06	1 11 2	BØ6B2		1-26 *	- 1					1		Ř		HAND WI		32
ND 04-06		BØ6V2		1=27 +	- 11					2		ē		HAND WI		32
ND Ø4=Ø6	7.17 ·	BØ671		1=28 +	m.					ī		à		HAND WI		32
ND 04-06		805V2		1-29 *	H					ž		è		HAND WI		32
ND 04-06	NAME OF THE OWNERS OF THE OWNERS OF THE OWNERS OF	805T1		1-30 +	·· 🕌			*		1		ê		HAND WI		32:
ND 04-06		B04T1		1-31 *	H					ž		Ř		HAND WI	RE	32:
ND 04-06		CØ4C2		1-32 *	Н					1		õ		HAND WI	RE	32
ND 04-06		C05C2		1=33 *	H					Ž		P		HAND WI	RE	32:
ND 04-06		COCCS		1-34 +	н					ĩ		P		HAND WI	RE	32
ND Ø4=Ø6		CØST1		1-35 #	н					2		P		HAND WI	RE	32:
ND 04-06		CØ5T1		1-36 *	H					1		ė		HAND WI		32
ND Ø4-Ø6		CØ4T1		1-37 *	H					2		P		HAND WI		32
ND 04-06		OBARK		1-38 *	H					1,		P		HAND WI		32
ND 04-06		DØ5C2		1-39 *	H					2		2		HAND WI		32
NO 04-06		DØ6C2		1-40 +	H					1		2		HAND WI		32
ND 04-06		00671		1-41 *	H					2				HAND WI		32
NC 04-06		00511		1-42 *	Н					1				HAND WI		32
ND 04-06		DØ471		1=43 *	H					2				HAND WI		32
ND Ø4=Ø6		EØ5C2		1-44 +	H					1		<u> </u>		HAND WI		32
ND Ø4=Ø6		EØSCS		1=45 +	H					4		۳.		HAND WI		35 35
ND 04=06		EUST1		1-46 *						2		Ē				32
ND 04-06		EØ5T1		1=47 *	H			-		2		P	•	HAND WI		32
ND 04-06		E0471		1-48 *	H					1 2		ř		HAND WI		32
ND 04=06		FØ4C2		1-49 #	H					2		þ		IN CHAH		32
ND 04-06		FØ5C2		1-50 +	7 1					1 2		ن		HAND WI		32
NO 04-06		FØ6C2		1-51 *	H					1		Ş		IN CUAH		32
ND Ø4=Ø6		FØ4J2		1-52 *	H					2		وَ		HAND WI		32
ND 04=06		F05T1		1-53 +						4		É		H TO WH		32
ND 04=06		FØ6T1										r,	153-6/8	P1 (W M)		32
ND 04-06				1									4-4-410			Ų s.

GT40 Rùn	NAME	ND288.V: PIN NAME	7(17) Ø6 Örder Pin	J22/72 BAY - ORDER	Q	DRAM RV PG Y	X	# MEMARKS	1=MAR _B 73 Length	6152 EXCEPTIONS	PAGE 40 RUN NUMBER
GND	07=09	AØ982	1.7 2.7 100 700 700 700	1-01 +	Н			1	P	HAND WIRE	322
	07-09	AUPCZ		1-02 *	н			ä	P	HAND WIRE	322
	Ø7=Ø9	AØ882		1-03 *	H			1	P	HAND WIRE	322
	07-09	AÛBÇZ		1-04 +	H			2	P	HAND WIRE	322
	07-09	A0782		1-05 +	•			1	è	TO HERE	322
GND	Ø7 ± Ø9	AD7C2		1-06 *	H	THE WINDS NAME OF THE PARTY OF		2	P	HAND WIRE	325
GND	07-09	AØ7N1		1-07 +	H			1	P	HAND WIRE	322
GND	07-09	AD7P1		1-08 +	Ĥ			2	P	HAND WIRE	322
GND	07=09	AØ7R1		1-09 4	H			1	2	HAND WIRE	322
GND	07=09	A0751		1-10 *	H			2	<u>P</u>	HAND WIRE	355
	07-09	AØ7T1		1-11 *	H			1	7	HAND WIRE	322
	07-09	A07V2		1-12 *	H			5	P A	HAND WIRE	322
	07=09	A Ø 8 T 1		1-13 +	. H			1	ř	HAND WIRE	322
	07-09	A0851		1-14 *	H			4	ŗ	HAND WIRE	322
	07=09	AØ8R1		1-15 *	- 별.			1	<u> </u>	HAND WIRE	355
	107-09	AØ8P1		1-16 *	Ħ			4	Ė	HAND WIRE	322
	07-09	 ADBN1		1-17 *	_ _ _	automorphism of the state of th			ř	HAND WIRE	322
	07=09	AØ9P1		1=18 *	H			f	r ô	HAND WIRE	322 322
	07-09	AØ9N1		1-19 *	H			*	Ë	HAND WIRE	322
	07=09 07=09	AØPR1		1-20 +	П			1	5	HAND WIRE	322
		A0951		1=21 *	- 2	** *		*	5	HAND WIRE	322
	07=09 07=09	AØ9V2 AØ9T1		1=22 *	H			1	ۏۛ	HAND WIRE	322
	27-29	AØ8V2		1-24 *	-5-	Control of the second s		ż	ۋ	HAND WIRE	322
-	27-09	80882		1-25 *				1	ģ	HAND WIRE	322
	07-09	BØ8C2		1-26 *				2	P	HAND WIRE	322
	07-09	BØ782		1=27 *	<u> </u>			1	, P	HAND WIRE	322
	07-09	80751		1=28 +	H			Ž	è	HAND WIRE	322
	07=09	BØ701		1-29 *	H			ĭ	è	HAND WIRE	322
	07-09	BØ7C2		1-30 +	Ĥ	The second secon	er enemer of the control of the	2	ρ̈́	HAND WIRE	322
GND	07-09	BØBE1		1-31 *	•			ĩ	Ė	TO HERE	322
GND	07 - 09	80801		1-32 *	H			Ž	P	HAND WIRE	322
GND	07-09	BØ9E1		1-33 +	H			1	P	HAND WIRE	322
GND	07-09	BØ9D1		1-34 *	Ĥ			2	Ė	HAND WIRE	322
	07=09	80902		1-35 *	H			1	P	HAND WIRE	322
	07-09	80983		1-36 *	H			2	P	HAND WIRE	322
	07=09	BÁSAS		1-37 *	H			1	P	HAND WIRE	322
2 1 5	07-09	BØ9T1		1-38 *	H			2	P 	HAND WIRE	322
	07-09	B08 A 5		1-39 *	H			1		HAND WIRE	322
	07=09	80871		1-40 +	H			2	P	HAND WIRE	322
	07=09	BØ7V2		1-41 *	H			<u>.</u>	6	HAND WIRE	322
	07=09	80771		1-42 *	H			4	<u>~</u>	HAND WIRE	322
	07=09 07=09	CØ7C2		1-43 *	H			1	r m	HAND WIRE	322
	07-09	00802 00902		1-44 *	M			4	ř	HAND WIRE	355
	07-09	CUSTI		1=46 #				* 3		HAND WIRE	322
	07-09	CD8T1		1-47 *	H			1	F	HAND WIRE	322
	07-09	CØ7T1	100000000000000000000000000000000000000	1=45 +	H			5	É		322
	07-09	DØ7C2		1-49 +	C 1			1	Ë	HAND WIRE	322
	07-09	00802		1-50 +				2	وَ	HAND WIRE	322
	07-09	00903		1-51 *	<u></u>			1	ģ	HAND WIRE	322 322
	07-09	D0911		1-52 *	H			ž	ė	HAND WIRE	322
	07=09	DØST1		1-55 *	Н			ī	Ř	HAND WIRE	322
GND	07-09	DØTTI		1-54 #	H			2	Š	HAND WIRE	322
	07-09	EØ7C2		1-55 *	H			ī	, P	HAND WIRE	322
GND	Ø 7 ≖Ø 9	 FØBCO		1 - 5 4	ш			2	, D	HAND HIRE	000

6 .	GI40.8 RÜN NAME		HND288.V1 Piñ Name	7(17) Ø6 Order Pin	/22/72 BAY = ORDER	G	DRAH	RV PÇ j	Z X	£	KEMARKS	1-MAR::73 Length	6152 EXCEPTIONS	PAGE 41 RUN NUMBER
*	GND 07=09 GND 07=09		E09C2 E09T1		1-57 ·					1 2		P P	HAND WIRE	322 322
•	GND 07-09 GND 07-09 GND 07-09		E0871 E0771 F0702		1-59 1-60 1-61	• H				1 2 1		P P	HAND WIRE HAND WIRE HAND WIRE	322 322 322
•	GND 07-09 GND 07-09 GND 07-09		FØ8Ç2 FØ8 <u>T1</u> FØ7 T1		1-62	• н • н				1		ė ė ė	HAND WIRE HAND WIRE H TO WHERE	322 322 322
٠	GND 07-29 GND 07-29 GND 07-29		FØ9C2 FØ9T1		1 1-01 1-02	• H				1	÷.	178-4/8 P		322 322 322
•	GND 07-09 Le! edge	н	EØZJŽ		1 1 - 01					1		4-0/8		322
•	LET EGGE	H	EØ3F2		1-02							3-0/8		323 323
•	LEI L.P. FLAG (0) LEI L.P. FLAG (0) LEI L.P. FLAG (0)	H	AØ2V2 CØ3E1		1-01			· · · · · · · · · · · · · · · · · · ·		1	e management de la companya de la co	6=0/8		324 324 324
•	LEI LP INT HIT LEI LP INT HIT LEI LP INT HIT	H	A02R1 A03B2	ng agasat salah distrik se kecamatan salah salah salah salah salah salah salah salah salah salah salah salah s	1-01					1	· · · · · · · · · · · · · · · · · · ·	4-2/8		325 325 325
ę.	LEI Z AXIS LEI Z AXIS LEI Z AXIS	н	803M2		1-01					1		5-4/8		326 326 326
•	LSC ENABLE PRINT LSC ENABLE PRINT LSC ENABLE PRINT	H	FØ2\$2 FØ3M2		1-01				an Mark states			3-0/8		327 327 327
•	MC L.P. PULSE MC L.P. PULSE MC L.P. PULSE	L	A01P2 A03A1		1-01	**************************************				1		4=2/8		328 328 328
•	MC Y <x MC Y<x MC Y<x< td=""><td>H</td><td>EØ3H2 FØ1T2</td><td></td><td>1-01 1-02</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>6=4/8</td><td></td><td>329 329 329</td></x<></x </x 	H	EØ3H2 FØ1T2		1-01 1-02					1		6=4/8		329 329 329
•	MC Y=X MC Y=X MC Y=X	H	E0151		1-01					1		4-0/6		330 330 330
•	uĀ 1±ù				1							7-0/5	•	300

GT40.8 RÛN NAME		ND288, V <u>1</u> Pin Name	22/72 BAY = ORDER	Q DRAW RV	PG Y X &	HEMARKS	1-MAR::73 Length	6152 EXCEPTIONS	PAGE 42 RUN NUMBER
MC Y>X MC Y>X MC Y>X	. H .	EØ1U1 EØ3L2	1-01 * 1-02 *		1		4-0/8		331 331 331
MD GRAPH X MD GRAPH X MD GRAPH X	H	B02\$1 F03V2	1-01 * 1-02 * 1				13-4/8		332 332 332
MU GRAPH Y Mũ Graph Y Mũ Graph Y	H H	B02R2 E03B2	1-01 * 1-02 *				8-6/8		333 333 333
MĐ JUMP LOAD PULSE MĐ JUMP LOAD PŪLSE MĐ JUMP LOAD PŪLSE	H	A03J2 C02D1	1-01 * 1-02 *		1		7-4/8		334 334 334
MD PC+2L MD PC+2L MD PC+2L	L	AØ3U2 EØ2N1	 1-01 * 1-02 *				12-4/8		335 335 335
MD POINT MD POINT MD POINT	L	A0252	1-01 4 1-02 4		1		2-6/8		336 336 336
MU PT+REL PT MO PT+REL PT MO PT+REL PT	H	40203 40203	1-01 4 1-02 4		1		4-4/8		337 337 337
PÔ IN PÔ IN PÔ IN		005E2 006E2 007E2	 1-01 * 1-02 * 1-03 *	н "	2		P P 5-4/8	HAND WIRE HAND WIRE TO HERE	338 338 338 338
PÚ ŠA PÚ ŠA PÚ ŠA		005F1 006F1 007F1	 1-01 * 1-02 * 1-03 *	H	2		P P 5-4/8	HAND WIRE HAND WIRE TO HERE	339 339 339 339
PØ 58 PØ 58 PØ 58 PØ 58		005F2 006F2 007F2	 1-01 * 1-02 * 1-03 *	H	2		P P 5-4/8	HAND WIRE HAND WIRE TO HERE	340 340 340 340
P1 IN P1 IN P1 IN P1 IN		005E1 006E1 007E1	1-01 * 1-02 * 1-03 *	ŀ H	2 1		P P 5-4/8	HAND WIRE HAND WIRE TO HERE	341 341 341 341

P	GT40.8 RUN NAME		ND288.V1 PIN NAME	7(17) 06. ORDER PIN	22/72 BAY = ORDER	Q	DRAW RV PG Y	X.	\$	HEMARKS 1=M	AR373 Length	6152 EXCEPTIONS	PAGE 43 RUN NUMBER
r	P1 SA P1 SA P1 SA P1 SA		00501 00601 00701		1-01 1-02 1-03	# H	***		2	P	5=4/8	HAND WIRE HAND WIRE TO HERE	342 342 342 342
r	P1 S8 P1 S8 P1 S8 P1 S8		DØ502 DØ602 DØ702		1-01 1-02 1-03	• H			2	P	5=4/8	HAND WIRE HAND WIRE TO HERE	343 343 343 343
*	PCC ANALOG CLOCK PCC ANALOG CLOCK PCC ANALOG CLOCK	H	FØ1R1 FØ3U1		1=01 1=02 1	* H			1	IWISTED PAIR	3-4/8	HAND WIRE H TO WHERE	344 344 344
•	PCC ANALOG EDGE PCC ANALOG EDGE PCC ANALOG EDGE	Ļ	FØ3P1 FØ1U1			#		, 	1		3-4/8		345 345 345
•	PCC DIS 01 IN PCC DIS 01 IN PCC DIS 01 IN	H	D01U1 E03T2		1-01 1-02 1	#	**************************************		1		5=2/8		346 346 346
•	PCC DIS 02 IN PCC DIS 02 IN		E01F2 F03R1		1-02	•					6=4/8		347 347 347
•	PCC DIS 03 IN PCC DIS 03 IN PCC DIS 03 IN	H H	E01J2 F03\$1		1-01 1-02 1	*			1		6-2/8		348 348 348
•	PCC DIS 04 IN PCC DIS 04 IN PCC DIS 04 IN	H	E01F1 F03J2		1-01 1-02 1				1		6-0/8		349 349 349
r	bộc dia ch bộc dia ch bộc dia ch	"H. H	C02F2		1-01 1-02 1			·-	1	IMISTED PAIR	6=0/8	HAND WIRE TO HERE	350 350 350
•	PCC PC 01 PCC PC 01 PCC PC 01	H	ADJR2 FOZN2		1-01				1		15-4/8		351 351 351
e e	PCC PC 02 PCC PC 02 PCC PC 02	H	A0381 F02P1		1-01 1-02 1				1		15=4/8		352 352 352

GT40, B Rûn name	A/P	HND288.V17 PIN NAME	(17) 06/22/72 ORDER BAY - PIN ORDER	Q DRAW RV PG Y	X & MEMARKS	1-MAR=73 Length	6152 PAGE 44 Exceptions Run Number
PCC PC 03 PCC PC 03 PCC PC 03	H	AU3T2 F02R1	1-01 * 1-02 *		1	15=6/8	353 353 353
PCC PC 04 PCC PC 04 PCC PC 04	н Н	EÑZKZ EÑZKZ	1-01 * 1-02 *			12-0/8	354 354 354
PCC PC 05 PCC PC 05 PCC PC 05	H	803K1	1-01 * 1-02 *		1	10=4/8	355 355 355
PCC PC Ø6 PCC PC Ø6 PCC PC Ø6	H	803L1 F0201	1-01 * 1-02 *		1	12=2/8	356 356 356
PCC PC 07 PCC PC 07 PCC PC 07		B03J1 E02\$2	1-01 * 1-02 *		1	11=2/8	357 357 357
PCC PC 08 PCC PC 08 PCC PC 08	H	803H1 F02D2	1-01 * 1-02 *		1	12=4/8	358 358 358
PCC PC 09 PCC PC 09 PCC PC 09	H	CØ3K1 EØ2R1	1=01 + 1=02 + 1		1	8=4/8	359 359 359
PCC PC 10 PCC PC 10 PCC PC 10	H 1	D0505 C0377	1-01 * 1-02 *		.4	6=4/8	360 360 360
PCC PC 11 PCC PC 11 PCC PC 11	H	C03H1 D02\$1	1-01 +		1		361 361
PCC PC 12 PCC PC 12	H H	CØ3F1 DØ2U1	1-01 * 1-02 *		1	6-2/8	361 362 362
PGC PG 12 PGC PG 13 PGC PG 13	H	DØ2R1 DØ3M1	1 1-01 + 1-02 +	e e e e e	1	6-6/8	362 363 363
PÇC PÇ 13 PÇC PC 14 PÇC PC 14	H	DØ3L1 EØ2F2	1 1=01 * 1=02 *		1	3-0/8	363 364 364
PCC PC 14			, 			4-4/8	364

* :	GT40.8 RŬN NAME	A/P		7(17) Ø6/22/7 ÖRDER BAY Pin ORDE	- Q	DRAW RI	/ PG <u>Y</u>	X #	ĶEMARKŞ	1-MAR373 Length	6152 PAGE 45 EXCEPTIONS RUN NUMBER
**	PCC PC 15	H	DØ3K2	1-01	*			1			365
	PGC PC 15	Н	EØ281	1-02	*						365
-	PCC PC 15			1						4-2/8	365
**	PH XOU	н	CØ1R2	1-01	4			1			366
	PH XOO	H	F02M1	1-02				_			366
5	BH XON		-	1						10-0/8	366
	PH X01	u	CØ152	1-01				1			367
*	PR XØ1	<u>H</u>	FØ2K1	1-02				•			367
	PK X01			1 -						9=6/8	367
*	₽ X X02		#04 Pa								740
₩.	PR X02	H	CØ1T2 FØ2J1	1-01 1-02				. 1			368
	PR XOZ	77	18591	1-02	•					9-4/8	368 368
2										7-470	900
	PR X03	<u> </u>	CØ1U2	1-01				1			369
4	PK X03	H	FØ2M2	1-02	*						369
76	in von			1						9=6/8	369
	PH X04	н	CØ1V2	1-01				1			370
-	PH X24	H	E02K1	1-02			a constitution	· · · · · · · · · · · · · · · · · · ·		region 1	370
	PR X04			. 1						6-4/8	370
9	PH XØ5	н	DØ182	1=01				1			371
•	PH XØ5	H	EDZAL	1-02				•			371
	PR X05			î						4=6/8	371
₹	an Aut		- m - m - m - m - m - m - m - m - m - m								
	PH X06	H H	DØ1J2	1-01						is alternated and	372
*	PH XØ6	Ħ	FØ2A1	1-02	•					6=6/8	372 372
-	• 48 T T			-						Ŏā\ A	- "
_	PH X07	н _	DØ1H2	1-01				1			373
€	PR X07 PR X07	Н	ENSO1	1-02	•						373
	LA YOU			. 1						6-2/8	373
•	PH XOR	H	DØ172	1-01				1			374
	PH XØB	Н	FØ281	1-02	#						374
	PH XØ8			1						6-0/8	374
€	PR X09	н	DØ1C1	1-01				1			375
	PR XØ9	H -	EØZUZ	1-02			0.00	. 🐧			375
•	PR X09			1						7-0/8	375
	5H V4 W		5040					4			************************************
•	PR X10 PR X10	H	DØ1R1 FØ3E1	1-01 1-02				1			376 376
I	PŘ X10	H	POLI	1-02	-					6=6/8	3/0 376
	그 물 경제품 그 그 그 그 그			•						.	₩, =

GT40,8 RÛN NAME	A/P P	288.V17(17) 0 IN ORDER AME PIN	6/22/72 BAY - Order	Q DRAW RV PG Y	X 4 REMARKS	1=MAR=73 Length	5152 PAGE 46 EXCEPTIONS RUN NUMBER
PH X11		DØ1N1	1-01 *		1		377
PH X11	H	FØ301	1=02 +				377
PŘ X11		•	1			7-0/8	377
PH YOU	H	CØ1L1	1-01 *		1		378
PH YOU		FØ2L1	1-02 +				378
PR YOU		,	i			10-4/8	378
PK YØ1	н	CØ1M1	1-01 *		1		379
PH YØ1		FØ2K2	1-02 +		•		379
PŘ ÝØÍ	n	LÄEVS	1			10-4/8	379
PH YØ2		C01N1	1-01 +		1		380
PR YØ2	H	FØ2J2	1-02 *			42.242	380
PH YØ2			1			10-2/8	380
PH YDS	H	C01P1	1-01 *		1,		381
PH Y03	H	FØ2L2	1-02 +				381
PH YØS			1			10-2/8	381
PH Y04	н	CU1R1	1-01 *		1		382
PR YØ4	H	EØ2J1	1-02 *				382
PŘ YØ4		· · · · · · · · · · · · · · · · · · ·	1		and the second s	7-0/8	382
PH Y05	н	CØ151	1-01 *		1		383
PH YØ5		EØ2C1	1-02 *		•		383
PH YØ5			1			6=2/8	383
PH YØ6	н	CØ1U1	4-04 -		•		704
PR 706		EØZV1	1-01 +				384
PŘ YØŠ	п.	ERKAT	1-02			8-0/8	384 384
			•			0-0/6	304
PH YU7		CØ1V1	1-01 *		1		385
PR YØ7	Н	EØ2T2	1-02 +	-			385
PR 707			1	- 10 Mileston and an analysis of the second		7=6/8	385
PK YØ8	н	DØ1A1	1-01 +		1		386
PR YØB		EØ2V2	1-92 +		-		386
BŘ ÁNŘ			1			7-2/8	386
PH Y09	H I	00181	1-01 *		1		387
PH Y09		E02P2	1-02 *	the rest consequence with a second or of the second of the second of the second or of the s			387 387
PH YØ9	11	नच् ना ≒	1			6-4/8	367 387
PH Y10	н т	00152	4-04 -				
PH Y10		70132 FØ301	1-01 *		1		358
PŘ Y10	n !	. No. 1	1-02 +				388
* 禁 透光型 こうしょう			1			6-4/8	388

GI40.B RÛN NAME	A/P	ND288.V1 PIÑ NAME	7(17) 06 ORDER PIN	/22/72 BAY = ORDER	Q	DRA	ń BA	P <u>G</u> Y	X	Ŕ	KEMARKŞ	1=MAR#73 Length	6152 PAGE 47 EXCEPTIONS RUN NUMBER
PR Y11 PR Y11 PR Y11	H	DØ1R2 EØ3V1		1-01 1-02 1						1		5-6/8	389 389 389
PYCS DELTA X PYCS DELTA X PYCS DELTA X	1 1	CØ181 DØ2M2		1-01 1-02 1						1		6-4/8	390 390 390
PYCS DELTA Y PYCS DELTA Y PYCS DELTA Y	H	A Ø 2 M 1 C Ø 1 D 1		1-01 1-02 1						1		7-0/8	391 391 391
PYCS DELTA Y PYCS DELTA Y PYCS DELTA Y		A02L1 F03K1		1-01 1-02 1						1 .		15-6/8	392 392 392
PVCS GRAPH PVCS GRAPH PVCS GRAPH PVCS GRAPH		802A1 003E1 E01L2	mytholica e	1-01 1-02 1-03	*				701 1018 PI E 1886	1 2	MARK CONTRACTOR OF THE CONTRAC	14-0/8	393 393 393 393
PYCS INTENSITY LEVEL PYCS INTENSITY LEVEL	H	A02V1 D03T2		1-01 1-02				enadorio e ha			THE CONTRACT OF THE CONTRACT O	10-4/8	394 394 394
PYCS LD DELTA Y PYCS LD DELTA Y PYCS LD DELTA Y	HH	A0281 F0182		1-01 1-02 1						.		15-6/8	395 395 395
PVCS LOAD DELTA X PVCS LOAD DELTA X PVCS LOAD DELTA X	H	E01M2		1-01 1-02 1			No. 1 1			1		8-4/8	396 396 396
PYCS LOAD K PYCS LOAD K	<u>.</u>	A02D1 D01P1		1-01 1-02 1	* *				a state decrease	1		11-6/8	397 397 397
PVCS LOAD * PVCS LOAD * PVCS LOAD *	L	802P2 C01K1		1-01 1-02 1						1		4-6/8	398 398 398
PVCS POINT OR GRAPH G PVCS POINT OR GRAPH G PVCS POINT OR GRAPH G	0	A02M2 F03A1		1-01 1-02 1	*					1		14-4/8	399 399 399

GT40.8 RÛN NAME		ND288.V1 PIÑ NAME	7(17) 06 ORDER PIN	BAY - ORDER	Q	DRAK	RV PG	Y	X	#	REMARKS	1-M	AR=73 LENGTH	6152 Exceptions	PAGE 48 RUN NUMBER
PVCS VEC+CHAR GO	H	ADZTZ		1-01	*					1					400
PVCS VEC+CHAR GO	H	BØSTZ		1-02											400
PVCS VEC+CHAR GO		•		1									5-2/8		400
PVCS XUP ENA	н	EØ3M2		1-01	*					1					401
PVCS XUP ENA	н	FØ2V2		1-02		Metal of 1									401
PYCS XUP ENA				1									6-2/8		401
PVC\$ Y8, Y9;	н	00201		1-01	*					1					402
PVCS Y8.Y9	H	FØ3L2		1-02						77.					402
PVCS Y8.Y9				i		44.14.					100 · ·		8-6/8		402
PWR SUPPLY L CLK INT	н	CØ4D1		1-01	*					1					403
PWR SUPPLY L CLK INT	Ĥ	FØ8V2	AØ2A1	1-02						2					403
PWR SUPPLY L CLK INT	Ĥ	ADZAL		1-03						-"					403
PWR SUPPLY L CLK INT				1									32-2/8		403
READ	н	CØ6U2		1-01	• H	MARK 1 2750 MINISTRAL 2750				1	Market and the second of the s	P		HAND WIRE	404
RÊAD	Н	00702		1-02	#							•		TO HERE	404
READ				1									2-6/8		404
RES 1		E05C1		1-01	* н					1		P		HAND WIRE	405
RĒS 1		EØ6C1		1-02	#							•		TO HERE	405
RĒS 1				1	ON A SERVICE ON	MALE LATER OF STREET							2-6/8		405
RLS 2		E0581		1-01	* H					1		P		HAND WIRE	406
RES 2		EØ6B1		1-02	•							•		TO HERE	406
RĒS 2				ī									2-6/8	•	406
SABH CHAR SCALE (1)	н	BØ2M1			WE SELECTIVE					2				1-PIN RUN	407
SABR INC OF	н	COZNZ		1-01	*					1					408
SABR INC ØR	Н	00151		1-02	*					-					408
SABR INC 00				1									5-6/8		408
SABR INC Ø1	H.	CØ251		1-01	*					1					409
SABR INC Ø1	н	D01V1		1-02						-					409
SABR ÎNC Ø1		-		i									5-6/8		409
SABR INC 02	н	DØ2A1		1-01	*					1					410
SABR INC 02	H	EØ1H2		1-02						-11					410
SABR INC 02		, , , , ,		1									5-6/8		410
SABR INC 03	н	00281		1-01						1					411
SABR INC Ø3	н	EØ1K2		1-02						_					411

>	HÖN NAMF	A/P	ND288.V: Pin Name	17(17) 06 ORDER PIN	/22/72 BAY ORDER	Q	DRAW	AV PG	Y.	X	ż	HEMARKS	1=MAR#73 Length	6152 EXCEPTIONS	PAGE 49 RUN NUMBER
•	SABR INC 04	н	CØ2N1		1-01						1				412
•	SABR INC Ø4	н	EØ1H1		1-02						_				412
_	SABR INC 04				1								7-2/8		412
	SADD THE OR														
	SABR INC 05 Sabr inc 05	 	CO2L1		1-01		en montes				1				413
	SABR INC 05	Н	E01L1		1-02	•							7 4 40		413
•	5 N - 0 W - 4 - 5 5				*								7-6/8		413
_	SABR ITALICS (1)	н	CØ182		1-01						1				414
	SABR ITALICS (1)	Н	CÔZLZ		1-02	•					_				414
	SABR ITALICS (1)				1								3-4/8		414
•	SUM DELTA X00	u	DNSKS		1-01						1				415
•	SOM DELTA X00		E01V2		1-02						*				415
_	SOM DELTA XOO		a 1 /-		1								6-2/8		415
•	SOM BELTA MAA														
	SOM DELTA XØ1 Som delta XØ1	<u> </u>	DØ2H2		1-01						1				416
•	SOM DELTA X01	Н	E01U2		1-02	*							4 0 40		416
•			-		1								6=2/8		416
	SUM DELTA X02	H	CØZVZ		1-01	•					1				417
	SOM DELTA XØ2	Н	E0172		1-02	*					7				417
	SOM DELTA XØS				1							*******	7-4/8		417
•	SUM DELTA XØ3	u	CDZSZ		1-01	_					4				418
•	SOM DELTA XØ3	- H	E0152		1-02						1				418
_	SOM DELTA XØ3	-			1	-							7=6/8		418
ľ	SOU SCITE MAA												· · · · ·		
	SDM DELTA X04 SDM DELTA X04		COSV1		1-01	_					1				419
•	SUM DELTA XØ4	Н	E01R2		1-02	4							7=2/8		419 419
•					1								/=4/0		411
	SOM DELTA XØ5	H	CØ2U1		1-01	*					1				420
C	SOM DELTA X05	н	ED1N1		1-02										420
	SOM DELTA X05				1		er auto						7-2/8	-	420
•	SUM DELTA XØ6	н	DØZLZ		1-01						1				421
•	SUM DELTA XØ6	H	ED1P1		1-02						*				421
	SOM DELTA XØ6		-g		1								5-4/8		421
•	BOM BULEA HOS				-	_					_				
	SOM DELTA XØ7 Som delta xø7	H	D02J1		1-01						1				422
•	SOM DELTA X07	Н	E01M1		1-02	•							5-4/8		422 422
•	· 프랑스 프로젝트의 역약수				•								2-1/ <u>0</u>		766
	SOM DELTA XØ8	Н	DØZL1		1-01	•					1				423
•	SOM DELTA XOS	H	E01J1		1-02	•									423
	SOM DELTA X08				1								4=6/8		423
1															

GT40.8 Hûn nam	E	. <u></u> .		ND288.V1 PIN NAME	7(17) 06/22/ DRDER BAY PIN ORD	-	Ģ	DRAM	ŖV P <u>G</u>	<u>у</u>	X .	É REMAR	1=MAR=73 KS LENG	ТН	6152 PAGE 50 Exceptions Run Number
SUM DEL	TA X09		H	DØ2H1	1-0	1 *						1			424
SOM DEL			H	EØ1N2	1-0										424
RÔM ĐỆC	ĨA XØ9			-	1								5-4	/8	424
SOM DEL	TA Y04		Н	CASAS	1-0	1 *					;	L			425
ZĎW DFľ			Н	FØ1N1	1-0	2 +					-				425
SÕW DĒL	IA 404				1								10-0	/8	425
SOM DEL			Н	CØ2R2	1-0	1 *					:	ļ			426
SOM DEL			Н	FØ1J2	1-0	2 *									426
SOM DEL	TA YØ5				1,								9-6.	/8	426
ZĎW DĚľ			H	CØZTZ	1-0	1 *					1				427
SOM DEL			Н	FØ1H2	1-0	2 *									427
ZÔM ĐỆC	TA YØ6				1								9-4.	/8	427
aÖw ořľ			H	CØ2P2	1-0	1 *					1	,			428
SOM DEL			Н	FØ1F2	1-0	2 *									428
SOM DEL	IA 407				1								9=6,	/8	428
SOM DEL			Н	DØ2M1	1-0	1 *					1				429
SUM DEL			н	FØ1E2	1-0	2 *									429
รู้อัพ อธิ์ไ	-				1								7-0.	/8	429
SOM DEL			Н	DÖSJS	1-0:	1 *					1	İ			430
SUM DEL			Н	FØ102	1-0	2 *									430
2ĎW DĒĆ					1								7-2/	/8	430
SOM SIV			Н	B03A1	1-0:						1	1			431
SOM STA			Н	FØ2P2	1-0	2 + "			-						431
SÕW SĬV	Ing No				1								14-4/	/ 8	431
SUM STA	TUS 01		н	BØ3C1	1-0:	٠.					1	1			432
SOM STA			н	FØ2N1	1-03	2 +									432
SÕM SĨA	ÎO2 MI				1,								14=2/	8	432
SOM STA	_		н	BØ3F1	1-0:	L +					1				433
SDM STA			Н	FØ2R2	1-0	2 #									433
SÕM SĨA	IUS 02				1								14-0/	8	433
SUM STA	_		Н	B0301	1-01						1				434
SOM STA			н	F02\$1	1-0	2 *							-		434
SÕW SĪĀ	102 N2				1								14-4/	8	434
SOM STA			H	B03U1	1-0:	L #					1				435
SUM STA			Н	EOSLS	1-02	2 4					-				435
SÕM SĪA	102 N4				1								9-2/	4	435

ST40.8 RUN NAME		7) 06/22/72 Der bay – Q dram RV PG Y X & Memarks In Order	1=MAR=73 LENGTH	6152 PAGE 51 EXCEPTIONS RUN NUMBER
OM STATUS 05	H 803V1	1-01 • 1		436
SOM STATUS Ø5	H EØ2M1	1-02 *	-	436
SOM SĪAŢUS Ø5	* "	1	9-4/8	436
SOM STATUS Ø6	H CØ3D1	1-01 *		437
SOM STATUS DE	H FOZE1	1-02 *		437
SOM STATUS DE	Annual of the Annual of	A COMPANY OF THE PARTY OF THE P	10-6/8	437
SOM STATUS Ø7	H C03A1	1-01 +		438
SOM STATUS Ø7	H FØZH1	1-82 *		438
SOM STATUS 07	T. The State Control of the Control		11-2/8	438
SOM STATUS ØS	H CØ3P2	1-01 * 1		439
SOM STATUS DE	H FOZEZ	1-92 +		439
SOM STATUS Ø8	· · · ·	4	9-4/8	439
SUM STATUS 09	H COSTS	1-01 • 1		440
SOM STATUS 89	H FØ2C1	1-02 +		440
SOM STATUS 89			9-0/8	440
SOM STATUS 10	H CD3U2	1-91 • 1		441
SOM STATUS 10	H DÖSAS	1-02 +		441
SOM STATUS 10			5-4/8	441
SOM STATUS 11	H CO3M2	1-01 + 1		442
SOM STATUS 11	H DØ2T2	1-02 +		442
SOM STATUS 11		and the second s	6-0/8	442
SOM STATUS 12	H 092V1	1-01 *		443
SOM STATUS 12	H E03C1	1-02 *		443
SOM STATUS 12		1	3-2/8	443
SOM STATUS 13	H DØ2\$2	1-01 *		444
SDM STATUS 13	H E0381	1-02 •		444
SÚM STATUS 13	The second secon		3-4/8	444
SOM STATUS 14	H 003U1	1-01 + 1		445
SOM STATUS 14	H EÖZH2	1-02 •		445
SOM STATUS 14		1	3-6/8	445
SOM STATUS 15	H EØ201	1-01 *		446
SOM STATUS 15	H EØ3A1	1-02 *		446
SUTATUS 15		1	3-0/8	446
TO LOAD PULSE	H AØZNZ	1-01 * 1		447
TO LOAD PULSE	H BØ3U2	1-02 *		447
TO LOAD PULSE	THE COLUMN TWO IS NOT THE COLUMN TWO IS NOT	per la companya di salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah s	6-0/8	447

GT40.B RÛN NAME		ND288.V1 PIN NAME	7(17) Ø6, Order Pin	BAY ORDER		Q DR	AW RV	PG Y	X :	\$	HEMAHKS	1-MA	Ra73 LENGTH	6152 EXCEPTIONS	PAGE 52 RUN NUMBER
ŢŲ N.P.R. REG (0) TŲ N.P.R. REG (0) TŲ N.P.R. REG (0)	H	AØ2E1 FØ3R2		1-01 1-02 1					;				17-0/8		448 448 448
THERM 1 THERM 1 THERM 1		E05A1 E06A1		1-01 1-02 1		H		Radio State 1977 197	1			Ŗ	2=6/8	HAND WIRE TO HERE	449 449 449
TNAR TNAR TNAH	H	CØ6 V2	- 0	1-01 1-02 1		Н				• .		P	2=6/8	HAND WIRE TO HERE	450 450 450
TWID TWID TWID	H	CØ5V1 CØ7V1		1-01 1-02 1		H			1	•		ķ	2=6/8	HAND WIRE TO HERE	451 451 451
VC1 CHAR+GRAPH MODE VC1 CHAR+GRAPH MODE VC1 CHAR+GRAPH MODE	H	EØ3U1 FØ1E1		1-01 1-02 1		and the second s	alam as and approximately a state	- yyy					4=0/8		452 452 452
VC1 CLR DELTA REG VC1 CLR DELTA REG VC1 CLR DELTA REG	L	CØ3V2 FØ1\$2		1-01 1-02					1	,			10=4/8		453 453 453
VÇ1 CLR FLAGS VÇ1 CLR FLAGS VÇ1 CLR FLAGS	L	A Ø 3 N 2 B Ø 2 B 1		1-01 1-02					;	•			4-2/8		454 454 454
VC1 COUNT CLX VC1 COUNT CLX VC1 COUNT CLX		EØ3P1 FØ1L1	and the second of the second o	1-01		A P. C. Peterskinson	e i savate de e addresse a	**************************************			And the same of th		5-0/8		455 455 455
VC1 ENABLE VC1 ENABLE VC1 ENABLE	L	DØ3J2 FØ1P1		1-01					1	!			8=6/8		456 456 456
VC1 LUAD DAC VC1 LUAD DAC VC1 LUAD DAC	H	CØ3R2 DØ1D2		1-01 1-02			All beautiful and Michigan		1	!			4-2/8		457 457 457
VC1 LOAD DOWN COUNT VC1 LOAD DOWN COUNT VC1 LOAD DOWN COUNT	i .	EØ1D1		1-01 1-02 1	*	·- \(\sum_{\cup \cup \cup \cup \cup \cup \cup \cup			·, · <u>1</u>				4-4/8		458 458 458
VC1 RESET VC1 RESET VC1 RESET	L	AØ2U1 AØ3K2		1-01	4				1				3=6/8		459 459

GT40.B Rûn name		HND288,V1 PIN	ORDER	122/72 BAY -	Q DRA	W RV PG Y	X e	HEMARKS	1=MARE73 Length	6152 EXCEPTIONS	PAG
		NAME	PIN	ORDER							N
VC1 SHIFT CLK	н	D03E2		1-01 *			1				
VC1 SHIFT CLK	Н	EØ1P2		1-02 *			· ·				
VÕ1 SHIFT CLK				1					6-2/8		•
VC1 UNLATCH	н	CØ1C1		1-01 4			1				4
VC1 UNLATCH	H	CØ352		1-02 #		The other transfer constraints and the		L			- 7
VC1 UNLATCH				1					4-4/8		4
ACS CTK X DOMU		DØ1M2		1-01 *			•				4
VČ2 CLK X DOWN		EDSES		1-02 4	and the state of t						~
AĞS GEK X DÖMN				i					4-4/8		4
VC2 CLK X UP		001J1		1-01 *			4				4
VČ2 CLK X UP		EØ3N1		1-02 4				!			7
VČZ CLK X UP				1		The second second			5-6/8		~
VC2 CLK Y DOWN		DØ1E2		1-01 4			1				4
VC2 CLK Y DOWN	-	DØ3 V 2		1-02 4				and the second of the second o	that of a common their transport of the common of the comm		4
AGS CER A DOMN				1					4-4/8		4
VÇZ CLK Y UP		DØ1E1		1-01 4			1				4
VČ2 CLK Y UP	Administration of the second	F03V1		1-02 4			· · · · · · · · · · · · · · · · · · ·				4
VČ2 CLK Y UP				<u>.</u>					9-6/8		4
ACS DOMN COUNT OFK	L	EØ1E2		1-21 *			1	•			4
ACS DOMN COUNT CTK	L	EØ3J2	AP2N1	1-02 4			2				4
VOS DOWN COUNT CLK		ADZN1		1-03 4							4
AGS DOMN COANT CER				1					16-4/8		4
VCS VEC GEN OF DONE		A02F2		1-01 4	Maria and American Committee	and the second second second second		Throfton .			4
VC2 VEC GEN OF DONE		B03R1		1-02							4
NČS NĚU GEN OP DONE				1					6-2/8		4
VR ANALOG +15V		ADIDS			10 1.0					1-PIN RUN	4
VR ANALOG -15V	ale office on aggregation of the	AØ1E2		THE SCHOOL STATE SHOWS AND A STATE OF	The second of the second of the second	entre entre				1-PIN RUN	4
VR INTENSITY ENA	н	FØ1J1		1-01 *	2	***	· 2	!			4
VR INTENSITY ENA	н	AØ182		1-02 4	_		1	•			4
VR INTENSITY ENA	Н	AUZJZ		1-03							4
VA INTENSITY LNA	1 100 100 100		and the set of	1	. des				19=6/8		4
XÚMDQ		FØ5K2		1-01 4			1	•	P.	HAND WIRE	4
XNWDØ		FØ6K2		1-02					0.440	TO HERE	4
XNWDØ				.1					2-6/8		4

GT40.8 RŪN NAME		(17) 06/22/72 Drder 8AY - Q DI PIN ORDER	RAM RV PG Y X 4 KEM	1=MAR#73 ARKS LENGTH	6152 PAGE 54 EXCEPTIONS RUN NUMBER
XVMD1 XVMD1 XVMD1	FØ5L2 FØ6L2	1-01 + H 1-02 + 1	1,	P 2=6/8	HAND WIRE 472 TO HERE 472 472
XUMDS XUMDS XUMDS	F 4 5 M 2 F 4 6 M 2	1-01 * H 1-02 * 1		P 2-6/8	HAND WIRE 473 TO HERE 473 473
SDMUX SDMUX SDMUX	FØ5N2 FØ6N2	1-01 * H 1-02 *	1	P 2=6/8	HAND WIRE 474 TO HERE 474 474
XNWD4 XNWD4 XNWD4	FØ5P2 FØ6P2	1=01 + H 1=02 + 1	. 4	P 2 - 6/8	HAND WIRE 475 TO HERE 475 475
XNWD5 XNWD5 XNWD5	F05R2 F06R2	1-01 * H 1-02 *	1	P 2=6/8	HAND WIRE 476 TO HERE 476 476
XNWD6 XNWD6	FØ5S2 FØ6S2	1-01 * H 1-02 * 1	1	P 2 - 6/8	HAND WIRE 477 TO HERE 477 477
XNWD7 XNWD7 XNWD7	FØ572 FØ672	1-01 * H 1-02 *	.	P 2 - 6/8	HAND WIRE 478 TO HERE 478 478
XPRDØ XPRDØ XPRDØ	FØ5L1 FØ6L1	1-01 + H 1-02 +	<u> </u>		HAND WIRE 479 TO HERE 479 479
XPRD1 XPRD1 XPRD1	FØ5M1 FØ6M1	1-01 + H 1-02 +		P 2=6/8	HAND WIRE 480 TO HERE 480 480
XPRD2 XPRD2 XPRD2	FØ5N1 FØ6N1	1-01 * H 1-02 *	.	P 2=6/8	HAND WIRE 481 TO HERE 481 481
XPRD3 XPRD3 XPRD3	FØ5P1 FØ6P1	1-01 + H 1-02 + 1	*	P 2=6/8	HAND WIRE 482 TO HERE 482 482
XPRD4 XPRD4 XPRD4	FØ5R1 FØ6R1	1-01 * H 1-02 *	1	2=6/8	HAND WIRE 483 TO HERE 483 483

GT40.B RÛN NAME	HND288,V1 A/P PIN NAME	7(17) 06/22/72 ORDER BAY - PIN ORDER	Q DRAW RV PG Y X	Ž ĶEMAŖKS	1=MAR=73 Length	6152 EXCEPTIONS	PAGE 55 RUN NUMBER
XPROS XPROS	FØ551 FØ651	1-01 * 1-02 * 1	H	1	F 2=6/8	HAND WIRE	484 484 484
XPRD6 XPRD6 XPRD6	F05U2 F06U2	1-01 * 1-02 * 1	H	.	P 2=6/8	HAND WIRE TO HERE	485 485 485
XPRD7 XPRD7 XPRD7	FØ5V2 FØ6V2	1-01 + 1-02 + 1		. 1	P 2=6/8	HAND WIRE TO HERE	486 486 486
X	C05R2	1-01 * 1-02 * 1	• •	1	P 2=6/8	HAND WIRE TO HERE	487 487 487
XS 01 XS 01 XS 01	C0591	1-01 * 1-02 * 1			P 2=6/8	HAND WIRE TO HERE	488 488 488
x	CØ5\$2	1-01 * 1-02 *	Н ,	1	P 2-6/8	HAND WIRE	489 489 489
X	C0512	1-01 * 1-02 *	H	. 1 ·	₽ 2 - 6/8	HAND WIRE	490 490 490
XS 04 XS 04 XS 04	FØ5C1 FØ6C1	1-01 + 1-02 + 1		1	P 2-6/8	HAND WIRE	491 491 491
XS 05 XS 05 XS 25	F05D1 F06D1	1-01 * 1-02 * 1	H	1	P 2-6/8	HAND WIRE TO HERE	492 492 492
X	FØ502 FØ602	1-01 * 1-02 *	H	1	P 2-6/8	HAND WIRE	493 493 493
XS 07 XS 07 XS 07	FØ5E1 FØ6E1	1-01 * 1-02 * 1	<u>H</u> .	. 1	P 2=6/8	HAND WIRE	494 494 494
XS 08 XS 08 XS 08	F05E2 F06E2	1-01 *	H	1	P 2=6/8	HAND WIRE	495 495 495

GI40.H Rùn name	HND288,V17(17) Ø A/P PIN ÖRDER NAME PIN	6/22/72 BAY = Q DRAW RV PG Y ORDER	Y X A REMARKS	1-MAR-73 Length	6152 PAGE 56 EXCEPTIONS RUN NUMBER
XS 09	FØ5F1	1-01 + H	1	P	HAND WIRE 496
x5 09	FØ6F1	1=02 *	~		TO HERE 496
XS N9	7 4 27 2	1 -		2-6/8	496
xs 10	FØ5F2	1-01 * H	1	· P	HAND WIRE 497
X5 10	FØ6F2	1-02 *	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	-	TO HERE 497
x § 10	• • •	1		2-6/8	497
X5 11	FØ5H1	1-01 + H	1	ę	HAND WIRE 498
XS 11	FØ6H1	1=02 *	*	•	TO HERE 498
x§ 11		<u></u>	a a	2-6/8	498
X2 12	FØ5H2	1-01 + H	1	P	HAND WIRE 499
x\$ 12	FØ6H2	1-02 *			TO HERE 499
x§ 12		1	**	2=6/8	499
x§ 13	FØ5J1	1-01 * H	1	P	HAND WIRE 500
XŞ 13	FØ6J1	1-02 +			TO HERE 500
x§ į̃3		1		2-6/8	500
XS 14	FØ5J2	1-01 + H	1	P.	HAND WIRE 501
X5 14	FØ6J2	1-02 *			TO HERE 501
x§ 14		1		2=6/8	501
X5 15	FØ5K1	1-01 + H	1	P	HAND WIRE 502
X§ 15	F06K1	1-02 *			TO HERE 502
X§ 15		1		2=6/8	502
DCIMNY	CØ581	1-01 + H	1	P	HAND WIRE 503
YNWDØ	CØ681	1-02 *			TO HERE 503
OGWNY		1		2-6/8	503
YNWD1	CÑ⊋DS	1-01 + H	. 1	P	HAND WIRE 504
YNWD1	CØ6D2	1-02 +		_	TO HERE 504
YNWD1		1	ger (gg del Ade de de des de de de de de de de de de de de de de	2=6/8	504
ZUMNZ	CØ5E2	1-01 + H	1	P	HAND WIRE 505
YNWDZ	CÕGES	1-02 +			TO HERE 505
AUMĎS		1		2-6/8	505
YNWD3	CØ5F2	1-01 + H	1	P	HAND WIRE 506
YNWD3	CØ6F2	1-02 *			TO HERE 506
YNWD3		1		2-6/8	506
YNWD4	CØ5H2	1-01 + H	1	Р	HAND WIRE 507
YNWD4	CÖƏHS	1-02 +			TO HERE 507
YNWD4		1		2-6/8	5Ø7

GT40.8 RÛN NAME	HND288.V17(17) A/P PIN ORDE NAME PIN	R BAY - Q DRAW!	RV PG Y X # MEMA	1=MAR=73 LRKS LENGTH	6152 PA EXCEPTIONS N
YNWD5	CØ5J2	1=01 + H	1	ę	HAND WIRE
YNWD5	CØ6J2	1-02 +	₹	' <u>.</u>	TO HERE
YNWD5	5 4 4 6 2	1		2=6/8	IN HENG
YNWD6	CØ5K2	1=01 * H	1	p	HAND WIRE
YNWD6	CØ6K2	1-02 +		F	
YNWD6	Chous	1-02 4		2-6/8	TO HERE
YNWD7	CØ5L2	1=01 + H	•	P	DAND UPDE
YNWD7	COOLS	1-02 *	1	ŗ	HAND WIRE
YNWD7	Chels	1=02 *		2-6/8	TO HERE
		-			
YPRDØ	CU5A1	1-01 + H	1	P	HAND WIRE 5
YPROØ	CØ6A1	1-02 *		•	TO HERE 5
YPROØ	ere e e e e e e e e e e e e e e e e e e	ī		2=6/8	5
YPRD1	CØ5C1	1-01 + H	1	ę	HAND WIRE
YPRD1	CØ6C1	1-02 +	The second contract of the second contract of	`• .	TO HERE
YPRQ1		1		2=6/8	, m, 112112
YPRD2	CØ501	1=01 + H	1	P	HAND WIRE
YPRD2	CØ6D1	1-02 •		',	TO HERE
v O O B B		7 "		2-6/8	I HEIVE
YPRD3	CØ5E1	1=01 + H	1	P	HAND WIRE
YPRD3	C05E1	1=02 *	•	ŗ.	TO HERE
•		1		2=6/8	IN HERE
YPRD4	CØ5F1				HAND WIRE
YPRD4	CU6F1	1-01 + H	1	è	
YPRD4	CAS-1	1-02 *.		0-448	TO HERE
ildā.		ī		2-6/8	
YPRD5	CØ5H1	1-01 + H	, , , , , 1	Ŗ	HAND WIRE
YPR05	CØ6H1	1-02 *			TO HERE 5
YPRD5		. 1		2=6/8	
YPRD6	CØ5J1	1-01 + H	1	P	HAND WIRE
YPRD6	C0671	1-02 *			TO HERE S
YPRO6		1		2=6/8	5
YPRD7	C05K1	1-01 * H	1	P	HAND WIRE
YPRD7	CØ6K1	1-02 +	The state of the s	•	TO HERE 5
YPRD7	TELLINE	1		2=6/8	
YS ØØ	60514	1=01 * H	1	P	HAND WIRE
YS 00	C06L1	1-02 +	•	·-	TO HERE
	Capfi	1-02 -		2=6/8	IN MENE
			e water water		

GT40.B RÜN NAME	HND288.V17(17) Ø A/P PIN ÖRDER NAME PIN	6/22/72 BAY = Q DRAM RV PG Y ? ORDER	# #EMARKS	1-MAR#73 Length	6152 PAGE 58 EXCEPTIONS RUN NUMBER
Y 5 01 Y 5 01 Y 5 01	CØ5M1 CØ6M1	1-01 * H 1-02 * 1	1	P 2=6/8	HAND WIRE 520 TO HERE 520 520
YS 02 YS 02 YS 02	CØ5M2	1-01 * H 1-02 * 1		P 2=6/8	HAND WIRE 521 TO HERE 521 521
Y 5 03 Y 5 03 Y 5 03	C06N1	1-01 * H 1-02 * 1	1	P 2=6/8	HAND WIRE 522 TO HERE 522 522
Y 5 04 Y 5 04 Y 5 04	CØ5N2	1-01 * H 1-02 *	1	P 2-6/8	HAND WIRE 523 TO HERE 523 523
YS 05 YS 05 YS 05	CØ5P1	1-01 * H 1-02 * 1	1	P 2-6/8	HAND WIRE 524 TO HERE 524 524
YS 06 YS 06 YS 06	CØ5P2	1-01 * H 1-02 * 1	1	P 2-6/8	HAND WIRE 525 TO HERE 525 525
YS 07 YS 07 YS 07	C05R1 C06R1	1-01 * H 1-02 *	1	P 2-6/8	HAND WIRE 526 TO HERE 526 526

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19 VOC	1	HAND WIRE HAND WIRE HAND WIRE		24AWG 24AWG	2 1 2			1-02 + 1-03 +		FØ1R2 DØ3R2		+15V +15V
3 VOE	1. 2	TO HERE HAND WIRE	P	24AWG	2		Н	-				T .*
2 YOC	2	HAND WIRE	P		1 2		Ĥ	1-02 +				
2 YOC	2	HAND WIRE	5		1		Н	1-04 *		AØ4A2	and the second s	5 VOÇ
2 YOC		HAND WIRE HAND WIRE	P ·		2	The second control of the second second second					The second secon	
2 YOC	2	HAND WIRE	p a		. 2		H	1-07 *		AØ7A2	A PERSONAL CONTRACTOR	
2 YOL	2	HAND WIRE	Ę		ž			1-09 *		AØBA2	* * * * * * · · · · · · · · · · · · · ·	S VOÇ
2 VOL		HAND WIRE	P		1 2		H	1-10 +				· ·
9 VDC	2	HAND WIRE	ė ·	The same of the sa	1			1-12 *		BØ7A2		
19 VDG	2	_	Ē		1							5 VDČ
12 VDC		HAND WIRE	P S		2		H	B	BØSAS		· · · · · · · · · · · · · · · · · · ·	
5 VOC	2	HAND WIRE	P	A CONTRACTOR OF THE PROPERTY OF	2		H	1-17 *	₩ ₽₽	BØ2A2	n 190 - 1944 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994 t 1994	5 VDC
2 YOC		HAND WIRE	ř P		5			7 7 -				5 VOC
19 YOC		HAND WIRE	P		1						11. Manager (ac. 14)	· · ·
10 VOC	2	HAND WIRE	Ę		i		Н	1-22 *		CØJAZ		5 YDČ
D VDC			P P	Control and the Control of the Contr	2		5.1	27,				
9 VDC	2	HAND WIRE	P		2		H	1-25 *		CØ6A2		S YDČ
19 VOC		HAND WIRE	Ę		2							
NOTE			P		1 2			1-28 #	DUBAS			
-5 YODD	2	HAND WIRE	ė		· 1		H	1-30 #	ONONE	DØ8A2	· management and the control of the	•5 VÕĈ
-5 VDC		HAND WIRE	P		2			-				
DØ3A2 1-35 * H 2 P HAND MIR DØ1A2 1-36 * H 1 P HAND MIR DØ1A2 1-36 * H 2 P HAND MIR DØ1A2 1-36 * H 2 P HAND MIR DØ1A2 1-38 * H 2 P HAND MIR DØ1A2 1-38 * H 2 P HAND MIR DØ1A2 1-38 * H 2 P HAND MIR DØ1A2 1-40 * H 2 P HAND MIR DØ1A24 1-40 * H 2	2	HAND WIRE	P		2		Н	1-33 +		DØ5A2		S VOC
9 VDC	2	HAND WIRE	ē		Ž			- ·		DØ3A2		
P		HAND WIRE	P P		1 2							
\$ \\ \text{VDC} \text{E03A2} & 1 - \text{A0} + \	2	HAND WIRE	è		1			1-38 *		ED1A2		5 VDÇ
## VDC	2	HAND WIRE	ē.		1		H					
#5 VDC		HAND WIRE	P		2							YDĈ
## VDC	2	HAND WIRE	P		ż							
EÑ Y D C		HAND WIRE	P		1 2			1=44 +				- 1. · · · · · · · · · · · · · · · · · ·
FØ8A2 1-48 * H 1 P HAND WÎR *5 VDÇ FØ7A2 1-49 * H 2 P HAND WÎR ERROR LIŞTÎNG GI40.8 HND288.V17(17) Ø6/22/72 RÛN NAME A/P PÎÑ ÛRDER BÂY - Q DRAH RV PG Y X Z MEMARKS LENGTH EXCEPTIONAME NAME PÎN ÛRDER	2	HAND WIRE			ī		H	1-46 +		EØ9A2		•Þ VDĞ
ERROR LISTING GI40.8 HND288.V17(17) 06/22/72 RUN NAME A/P PIN ORDER BAY - Q DRAM RV PG Y X & MEMARKS LENGTH EXCEPTION		HAND WIRE	P P		1			TT	••			
GT40.B HND288,V17(17) Ø6/22/72 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X ± MEMARKS LENGTH EXCEPTION NAME PIN ORDER	2	HAND WIRE	P		2		H	1-49 #		FØ7A2		•∌ V□Č
TI40.B HND288.V17(17) 06/22/72 RUN NAME A/P PIN ORDER BAY - Q DRAW RV PG Y X ± MEMARKS LENGTH EXCEPTION NAME PIN ORDER						R LISTING	ERI					
	PAGE IS RUN NUME	6152 EXCEPTIONS		HEMARKS	<u></u> ±			BAY -	ORDER	PIN		
+5 VDC			<u>.</u>						FIN	***		
	. 2	HAND WIRE			1		Ħ	1-50 +	:	FØ6A2		+> VDÇ
									:			

GT40.B RŪN NAME	HND288,V17(17) A/P PIN ÖRDER NAME PIN	76/22/72 BAY - Order	Q DRAM RV PG Y	# MEMARKS	1=MAR=73 Length	6152 PAG EXCEPTIONS R NU
+5 VDC	FØ5A2	1-51 *	Н	2	P	HAND WIRE 2
+5 VDC	FØ4A2	1-52 *	H	1	ė	HAND WIRE 2
+5 ŸDĞ	FØ3A2	1=53 +	 ₩	ž	é	HAND WIRE 2
+5 VDČ	FØZAZ	1-54 +		1 - 11 - million	ê	HAND WIRE 2
+5 VÕČ	FØ1A2	1=55 +	ü	•	è	H TO WHERE 2
-15V	COTB2	1-01 *			<u> </u>	HAND WIRE 3
=15V			п 11	6	r 9	
T	CNeBS	1-02 *		<u>.</u>		. HAND WIRE 3
=15V	CØ582	1-03 *	H	2	<u> </u>	HAND WIRE 3
=15V	CØ482	1-04 +	H		Ę	HAND WIRE 3
=15V	DØ482	1-05 +	H	2	P	HAND WIRE 3
-157	DØ582	1-06 *	H	1	P	HAND WIRE 3
-15V	DØ682	1-07 *	H	2	P	HAND WIRE 3
-15V	00782	1-08 *	H	1	Ř	HAND WIRE 3
-15V	EØ782	1-09 *	H	2	Ė	HAND WIRE 3
-15V	EØ6B2	1-10 +	н .	ī	Ė	HAND WIRE 3
-15V	EØ582	1-11 *		· · · Ž	P	HAND WIRE 3
-15V	EØ482	1-12 *	L	ī .	ė	HAND WIRE 3
-15V	FØ4B2	1-13 *			- <u> </u>	HAND WIRE 3
-15V	FØ582	1-14 *		1	, B	HAND WIRE 3
-15V	F06B2					HAND WIRE 3
=15Ÿ		1-15 +	<u> </u>	<u> </u>	r P	
-15V	FØ782	1-16 *			<u>-</u>	HAND WIRE 3
ØØ IN	FØ982	1-17 *				TO HERE 3
	EØ5U2	1-01 *			<u> </u>	HAND WIRE 4
00 IN	EØ6U2	1-02 *	H	1	F.	HAND WIRE 4
00 IN	EQTUS	1-93 *				TO HERE 4
ØØ SA	EØ5V1	1-01 *	H	2	P	HAND WIRE 5
ØØ SA	E06V1	1-02 *	H	1	₽	HAND WIRE 5
ØØ SA	EØ7V1	1=03 +				TO HERE 5
ØØ SB	EØ5V2	1-01 *	H	2	₽	HAND WIRE 6
ØØ SB	EØ6V2	1-02 +	H	1	P · · · · ·	HAND WIRE 6
ØØ \$8	EØ7V2	1=03 *	••	-		TO HERE 6
Ø1 IN	EØ7R1	1-01 *	u	2	þ	HAND WIRE 7
Ø1 IN	EØ6R1	1-02 *		1	Ĝ	HAND WIRE 7
01 IN	EOSRI	1=03 +	" ,	*	. ' <u>-</u>	TO HERE 7
Ø1 SA	EØ5P1	1-01 *	ш	2	Þ	HAND WIRE 8
Ø1 5Å					5	HAND WIRE 8
	EØ6P1	1-02 *	7	•	F	
Ø1 SA	EØ7P1	1-03 +			n.	TO HERE 8
01 58	EØ5P2	1-01 *	H	2	<u></u>	HAND WIRE 9
01 SB	EØ6P2	1-02 *	H	1	F	HAND WIRE 9
Ø1 SB	EØ7P2	1-03 *		_	_	TO HERE 9
02 IN	E05M1	1-01 *	H	2	P	HAND WIRE 1
02 IN	EØ6M1	1-02 *	H	1	P	HAND WIRE 1
02 IN	EØ7M1	1=03 *				TO HERE 1
02 \$A	EØSL1	1-01 *	Н	2	Ŗ	HAND WIRE 1
Ø2 SA	EØ6L1	1=02 +	H	1	P	HAND WIRE 1
02 \$A	EØ7L1	1-03 *	•	<u> </u>		TO HERE 1
02 \$8	EØ5L2	1=01 =	н	2	P	HAND WIRE 1
02 S B	EÚ6L2	1-01 *	·	- -	ė	HAND WIRE 1
- -	FROFE	# - M F 4	**	-	·	CONTROL OF A CAME
	The state of the s					

ERROR	<u>LISTING</u>
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GT40.8		н	ND288.V4	17(17) Ø6	6/22/72					1=MAR=73	6152	PAGE 3
RUN NAME	,	A/P	PIN	ORDER	BAY -	Q	DRAW RV PG Y	X ź	HEMARKS	LENGTH		RUN
	,		NAME	PIN	ORDER	•	**************************************	=	<u> </u>	*		NUMBER
00 KB			F/491 6		4-07 4						TO HERE	12
02 §B			E0712		1-03 *			2		£3	• •	-
03 IN 03 IN			E05J1		1-01 *	H		2		P	HAND WIRE HAND WIRE	13
03 IN 03 IN			E06J1 E07J1		1=02 +	. <u>H</u>		1		P.	TO HERE	13 13
03 SA			EØ5H1		1-01 +	ш		2		P	HAND WIRE	14
Ø3 SA			EØ6H1		1=02 +	- 2		ī		è	HAND WIRE	14
Ø3 5Â			EØ7H1		1-03 +	п		*		ζ.	TO HERE	14
Ø3 ŠB			EØ5H2		1-01	H		2		P	HAND WIRE	15
Ø3 ŠB			EØOHZ		1-02 *			ì		, ė	HAND WIRE	15
03 SB			EØ7H2		1-03 +		* 1. (1. NO.)	•		,	TO HERE	15
04 IN			EUSRS		1-01 *	u		2		P	HAND WIRE	16
04 IN			ENGRE		1-02 +	- H		ī		Þ	HAND WIRE	16
04 IN			EØ7R2		1-03 *	• •		-			TO HERE	16
04 SA			EØ5S1		1-01 *	Н		2		P	HAND WIRE	17
04 SA			E0651		1-02 *	H		ĩ		þ	HAND WIRE	17
04 SA	Committee of the commit	•	EØ7SI		1-03 *			· · · · · · · · · · · · ·			TO HERE	17
04 SB			EU5S2		1-01 *	H		2		P	HAND WIRE	18
04 ŠB			EØ652		1-02 +	H		ī		į̂ρ .	HAND WIRE	18
04 SB			EØ7S2		1-03 +	,,,		***			TO HERE	18
05 IN			EØ5M2		1-01 4	H	20.00	2		P	HAND WIRE	19
Ø5 IN			EØ6M2		1-02 +	H		ī		Ŕ	HAND WIRE	Ī9
05 IN			EØ7M2		1-03 +			7		•	TO HERE	Ĩ9
05 SA			EØ5N1		1-01 +	.H		2		P	HAND WIRE	20
05 SA			EØ6N1		1-02 *	Н	pagitine is then a many	ĩ		P	HAND WIRE	20
05 SA			EØ7N1		1-03 *						TO HERE	20
Ø5 \$8			EØ5N2		1-01 +	H	(MATERIAL MATERIAL M.)	2		P	HAND WIRE	21
Ø5 5B			EØ6N2		î-Ø2 ⇒	н		ï		P	HAND WIRE	21
05 \$B	*** * * * * * * * * * * * * * * * * * *		EØ7N2		1-03 *				-	#	TO HERE	21
06 IN			EU5J2		1-01 *	Н		2		P	HAND WIRE	22
06 IN			ENOUS		1-02 +	H		1		P	HAND WIRE	22
Ø€ IN			EØ7J2		1-03 *						TO HERE	22
06 ŞA			EØ5K1		1-01 *	H	- A Arthurst -	2		P	HAND WIRE	23
06 SA			EØ6K1		1-02 *	H		1		P	HAND WIRE	23
06 \$A			EØ7K1		1-03 *				m·		TO HERE	23
Ø6 \$B			E05K2		1-01 *	H		3		P	HAND WIRE	24
06 SB			EØ6K2		1-02 *	H		1		P	HAND WIRE	24
06 SB			EØ7K2		1-03 *						TO HERE	24
Ø7 IN			EDSES		1-01 *	H		2		P	HAND WIRE	25
Ø7 IN	11 - 1400 10		EØ6E2		1-02 +	H		1		P	HAND WIRE	25
07 IN			EØ7E2		1-03 *						TO HERE	25
Ø7 SA			E05F1		1-01 *	H		Ş		P	HAND WIRE	26
07 SA 07 SA			EØ6F1		1-02 +	Н		1		P	HAND WIRE	26
			EØ7F1		1-03 +						TO HERE	26
07 SB			E05F2		1-01 +	H		2		P	HAND WIRE	27
07 \$8 07 \$8			EØ6F2		1-02 *	Ħ		1		P	HAND WIRE	27
08 IN			E07F2		1-03 *						TO HERE	27
08 IN			EØSE1		1-01 *	H		2		?	HAND WIRE	28
			EØ6E4		1-02 *	H		1		P	HAND WIRE	28
08 IN			EØ7E1		1-03 *		1210 W. 1				TO HERE	28
08 SA			E0501		1-01 0	H		2	•	P	HAND WIRE	29
Ø8 5A			EØ6D1		1-02 *	Н		1	AND ARREST AND AND ADDRESS OF THE PARTY AND AD	è	HAND WIRE	29
08 \$A 08 \$B			EØ7D1		1=03				* *	<u>-</u>	TO HERE	29
க <u>்</u> வேற			E0502		1-01 *	H		2		P	HAND WIRE	30
												-

GT40.8 Run name	A/P	HND288,V; PIN NAME	17(17) Ø6 ORDER PIN	94Y - ORDER	0	DRAW RV PG Y X Z	HEMARKS	1=MAR±73 Length	6152 EXCEPTIONS	PAGE RUN NUMB
78 \$B			, Win		1.				CLASIN LIBY	
28 SB		EØ6D2		1-02 *	Н	1		P	HAND WIRE	30
99 IN		E0702		1-03 *				n	TO HERE	30
9 IN		00502	-	1-01 *	<u>#</u>			ن	HAND WIRE	31
9 IN		00602		1-02 *	H	+		۲	HAND WIRE	31
29 SA		DØ7U2		1-03 *				٥	TO HERE	31
DÝ ŠA		DØ5V1		1-01 +	H	4		Ď	HAND WIRE	32
29 ŠA		DØ6V1		1-02 *	П	•		₹	HAND WIRE	32
09 SB		DØ7V1		1-03 +					TO HERE	32
29 SB		DØ5V2		1-01 +				P	HAND WIRE	33
79 SB		00772		1-02 *	H	4		ŗ	HAND WIRE	33
10 IN		DØ5R1		1-03 *	6.4				TO HERE	33
10 IN		000R1		1-01 +	H	4		ř ò	HAND WIRE	34 34
IÐ ÍN		DØ7R1		1-02 *	H	•		•	HAND WIRE TO HERE	34
10 SA		DØ6P1		1-02 +	Н	4		D	HAND WIRE	35
LØ SA	-	DØ7P1		1-03 *	п			7	TO HERE	35
IÑ SB		DØ5P2		1-01 *	ш	a			HAND WIRE	36
10 88		DØ6P2		1-22 *		<u> </u>		ř Š	TO HERE	36
11 IN		D05M1		1-01 +	H			Ė	HAND WIRE	37
11 IN		DØ6M1		1-02 +		4		r b	HAND WIRE	37
II IN		DØ7M1		1-03 *	-	•		τ.	TO HERE	37
II SA	to 1 - Marin Company and the Company of the Company	D05L1		1-01 *	Ä	2		D	HAND WIRE	38
LI ŠA		DØ6L1		1-02 +	H			į́	HAND WIRE	38
LI SA		D07L1		1-03 *	п	*		ŗ	TO HERE	38
1 5B		DØ5L2		1-01 +	H	2		5	HAND WIRE	39
ไว้ รื้8		DØ6L2		1-02 *	Н			è	HAND WIRE	39
Li ŠB		00762		1-03 4	רו	•		<u>.</u>	TO HERE	39
12 IN	- PATE MANUFACTURE AND ADDRESS OF A 1 AND ADDRESS OF	DØ5J1		1-21 *	H	2		P	HAND WIRE	40
12 IN		DESJI		1-02 +	H	1		ė	HAND WIRE	40
12 IN		D07J1		1=03 #	П	***************************************		"	TO HERE	40
12 SA		DUSHI		1-01 *	Н	2		P	HAND WIRE	41
12 ŠA		DØSHI		1-02 *	H	· · · · · · · · · · · · · · · · · · ·		ě	HAND WIRE	41
12 SA		DØ7H1		1-03 *	.,	•		\ <u>-</u>	TO HERE	41
12 58	***	DØ5H2		1-01 +	Н	2	**************************************	P	HAND WIRE	42
12 SB		DØ6H2		1-02 *	H	ī		P	HAND WIRE	42
12 58		DØ7H2		1-03 +	• • •				TO HERE	42
13 IN		DØ5R2		1-01 #	н	2		P	HAND WIRE	43
13 IN		DØ6R2		1-02 #	Ĥ	1		Ã	HAND WIRE	43
13 IN		DØ7R2		1-03 *		*		•	TO HERE	43
13 5A		DØ5\$1		1-01 +	H	2	W	- P	HAND WIRE	44
13 ŠA		00651		1-02 #	н	1		P	HAND WIRE	44
13 \$A		DØ751		1-03 +		·			TO HERE	44
13 SB		00552		1-01 +	Н	2		P	HAND WIRE	45
LŠ ŠB		00652		1-02 +	H	1		Þ	HAND WIRE	45
13 5B		DØ752		1-03 *					TO HERE	45
14 IN	The second secon	DØ5M2		1-01 *	Н	2		Ē	HAND WIRE	46
L4 IN		D96M2		1-02 *	Н	1		P	HAND WIRE	46
14 IN		DØ7M2		1-03 *					TO HERE	46
LÃ SA		DØ5N1		1-01 +	H	2		P	HAND WIRE	47
LÃ ŠA		DØ6N1		1-02 *	H	1		P	HAND WIRE	47
L4 54		DØ7N1		1-03 *			,	a.	TO HERE	47
14 \$8		DØ5N2		1-01 *	H	2		م	HAND WIRE	48
14 58		DØ6N2		1-02 *	Н	- 1		P	HAND WIRE	48

					EH	HOR LISTING				
GT40,B	н	ND288.V1	7(17) Ø6	122172				1=MAR=73	6152	PAGE 5
HÙN NAME	A/P		OROER PIN	BAY - ORDER	Q	DRAW RV PG Y X	# HEMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
14 SB		DØ7N2		1-03 *					TO HERE	48
15 IN		00532		1-01 *	Н		2	P	HAND WIRE	49
15 IN		00675		1-02 +	Н		1	<u> </u>	HAND WIRE	49
15 IN		00712		1-03 +			_		TO HERE	49
15 SA		DØ5K1		1-01 *	H		2	è	HAND WIRE	5 Ø
15 SA 15 SA		DØ6K1 DØ7K1		1-02 *	H		1	F	HAND WIRE TO HERE	50 50
15 SB		D05K2		1-03 +	Н		2	p	HAND WIRE	5.0 5.1
15 \$B		DØSKZ		1-02 +	H		ī	è	HAND WIRE	51
15 58		0Ø7K2		1-03 +	- 1-1	A CONTRACTOR OF THE PARTY OF TH	-		TO HERE	51
AØ1	Н	DØ6A1		1-01 *	H	_	1	P	HAND WIRE	67
AØ1	Н	DØ7A1		1-02 +					TO HERE	67
BUS AUD	Ļ	BNOHS		1-01 +	Ħ		2	P P	HAND WIRE	97
BUS AUD BUS AUD	<u> </u>	805H2 807H2		1=02 *	H		1	.	HAND WIRE	97
BŪS AUØ	 	B06H2		1-03 *	- -	Containing the series of the s	<u>_</u>	5	HAND WIRE HAND WIRE	97 97
BŪS ĀŪØ	Ľ.	BØ8H2		1-05 +	P		2	r.	TO HERE	97
BŪS AĐ1	Ī	BØ9H1		1-01 *	Н		ž	P	HAND WIRE	98
BŪS AŬ1	Ū	BØ8H1		1-02 +	Н		ī	ė	HAND WIRE	98
BŪS AØ1	L	807H1		1-03 *	H		2	P	HAND WIRE	98
BUS AU1		BØ6H1		1-04 *	, H	TO THE CONTROL OF THE	1	P	HAND WIRE	98
BŪS AĎ1 BŪS AĎ2	Ļ	B03H1		1-05 *			2		TO HERE	98
BŪS AØZ	-	809J2		1-01 +	H		2	P P	HAND WIRE	99
BŪS AŬZ		BØ7J2		1-02 *	H		+	5 S	HAND WIRE	99 99
BUS ADZ	Ī	80612		1-04 +	H		1	ģ	HAND WIRE	99
BŪS AŬ2	L	BØ5J2		1-05 +	• • •		2	' .	TO HERE	99
BŪS AĎ3	Ĭ.	B09J1		1-01 .	Н			ρ	HAND WIRE	100
BUS AUS	Ļ	BØ8J1		1-02 +	Н		1	ė	HAND WIRE	100
BUS AU3	Ļ	807J1		1-03 *	Н		2	P	HAND WIRE	100
BUS AØ3 BUS AØ3	Ļ	B06J1		1-04 +	H		1	Ė	HAND WIRE	100
BUS AU4	<u> </u> -	B05J1		1=05 *			2	0	TO HERE	100
BUS AD4	-	809K2	197	1-01 *	H		3	P	HAND WIRE HAND WIRE	101
BUS AU4	Ī	BØ7K2		1-03 +	H		* 2	Á	HAND WIRE	101 101
BŪS AØ4	ī	BB6K2		1-04 +	H		i	, e	HAND WIRE	101
BÚS AØ4	ũ	BØ5K2		1-05 *	•••		ž		TO HERE	101
BUS AUS	<u> </u>	BOSK1		1-01 *	Н		2	P	HAND WIRE	102
BUS AUS	Ļ	808K1		1-02 *	H		1	Ŕ	HAND WIRE	102
BUS AU5 Būs au5	-	BØ7K1		1-03 *	H		2	P	HAND WIRE	102
BUS AUS	-	BØ5K1		1-04 +	Н		<u>}</u>	P	HAND WIRE	102
BÜS AU6	Ī	80912		1-05 * 1-01 *	ш		4	p	TO HERE	102
BŪS AØ6	Ī	80812		1-02 +	5		2	ŕ	HAND WIRE HAND WIRE	103
BŪS AU6	Ĺ	B07L2		1-03 +	Н		ī	, P	HAND WIRE	103 103
BŪS AØ6	L	BØ6L2		1-04 +	Н	The control of the co	2	è	HAND WIRE	103
BUS AU6	Ļ	BØ5L2		1-25 +			1		TO HERE	103
BUS A27	Ļ	BØ9L1		1-01 *	Н		2	ę	HAND WIRE	104
BUS AU7 Būs au7	L	808L1 807L1		1-02 +	H		1	À	HAND WIRE	104
BUS AU7	-	BU6L1		1-03 +	H		2	P	HAND WIRE	104
BUS AD7	Ĺ	BØ5L1		1-04 +	H		1 2	!	HAND WIRE	104
BŪS AUS	L	BØ9M2		1-01 *	н		2	P	TO HERE	104
	•	112		サーカナ ム	Ü.		-	Ţ	HAND WIRE	105

F	RR	OR	LI	ST	ING

G [40 . 1			ND288, V1	7(17) 06/2	172					1=MAR=73	6152	PAGE 6
KŪN N	AME	A/P	PIN NAME	ORDER BA	RDER	Q	DRAW RV PG Y	X	€ HEMARKS	LENGTH	EXCEPTIONS	RUN NUMBE
BUS A		L	BØ8M2	1.	02 +	Н			1	P	HAND WIRE	105
BUS A	98	L	BØ7M2	1.	03 *	Ĥ			2	P P	HAND WIRE	105
BUS A		Ē	806M2	1.	04 +	H			ī	è	HAND WIRE	105
BUS A		L	BUSMZ		05 .	12			Ž		TO HERE	105
BUS A	Ũ9	Ĩ.	BØ9M1		01 +	H			ī	P	HAND WIRE	106
BUS A	09	L	BØ8M1		02 .	H			2	é	HAND WIRE	106
BUS A		Ĺ	BØ7M1		03 +	H			ī	è	HAND WIRE	106
BUS A		L	BØ6M1		04 .	H			<u> </u>	ė	HAND WIRE	106
BUS A		L	B05M1	Ī.	95 #				ī		TO HERE	106
BŪS A		L	BØ9N2	1.	01 .	H				· P · · · ·	HAND WIRE	107
BUS A			BØSN2	1.	92 +	H			2	ρ	HAND WIRE	107
BUS A		L	BØ7N2	Ĩ.	03 *	Ĥ				P	HAND WIRE	107
BUS A	10	_ _	BØ6N2	1.	04 .	H			Ž	ė	HAND WIRE	107
BUS A		L	BØ5N2	ī.	05 +				1	■ an.	TO HERE	107
BUS A		L	BØ9N1	1.	Ø1 *	н			i	P	HAND WIRE	108
BUS A		L	BØ8N1	1.	82 +	H	· · · · · · · · · · · · · · · · · · ·	4-800 1-800	Ž	P	HAND WIRE	108
BUS A	11	<u>\</u>	B07N1	Ĩ.	93 +	H			Ĩ	è	HAND WIRE	108
BŪS A		L	BOONS		94 +	H	• 1		2	è	HAND WIRE	108
BUS A	11		BØ5N1	1.	Ø5 +				1	`-	TO HERE	108
BŲS A	12	L	BUPPZ		01 4	Н			1	P	HAND WIRE	109
BŪS A	12		BØ8P2	Ï.	Ø2 *	H			Ž	ρ̈́	HAND WIRE	109
BŪS A:		L	BØ7P2	1.	03 *	H	and the same of the same and the same and the same of the same and the		Ī	P	HAND WIRE	109
BUS A:		L	BØ6P2	ï•	94 +	H			Ž	ρ̈́	HAND WIRE	109
BŲS A:		L	B05P2		Ø5 ·				Ī.	•	TO HERE	109
BUS A		_	BØ9P1	Ĩ.	01 *	Н			Ī	P	MAND WIRE	110
BUS A		L	BØ8P1	1.	92 .	Н			2	P	HAND WIRE	110
BUS A	13	L	BØ7P1	1.	23 .	H			1	P	HAND WIRE	110
BŪS A		L	B06P1	1.	04 +	H			2	P .	HAND WIRE	110
BĀZ V	7	L	BØ5P1	1.	Ø5 #			;	1	•	TO HERE	110
BĀ2 V	_	L	BØPRZ		01 *	Н			1	P	HAND WIRE	111
BUS A		L	BØ8R2	1.	02 *	H			2	P	HAND WIRE	111
BŲS A		L	BØ7R2	1	03 *	H			1	P	HAND WIRE	111
BAZ V		L	BØ6R2		04 4	H	•		2	P	HAND WIRE	111
BUS A	=	L	BØ5R2	1	05 +				1	. •	TO HERE	111
BA2 V		_	809R1	1.	01 *	H			1	P	HAND WIRE	112
BĀ2 V		L	BØBR1	1.	Ø2 *	Ĥ			2	Ê	HAND WIRE	112
BAZ V		_ _	807R1	Ï.	03 .	н			1	P	HAND WIRE	112
BUS A		L	BØ6R1	Ī.	04 #	Н			7	P	HAND WIRE	112
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	GND Ø1-03	CØST	1-23 +	ü		Ž	é	HAND WIRE	3
	GND 01-03	DØSC		ü		1	P	HAND WIRE	3
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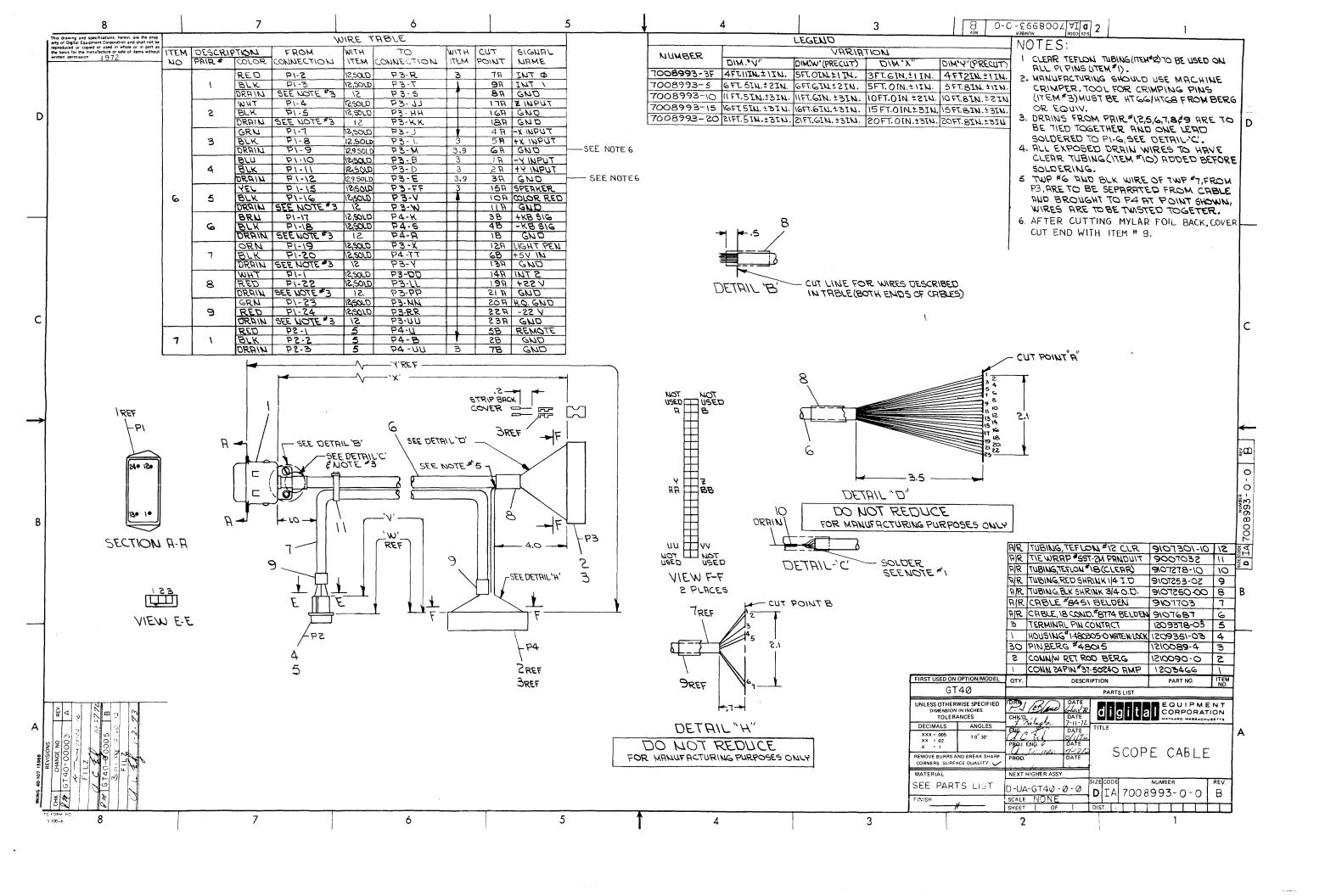
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GND 07-09 BD8E1 1-31 *			B0701			H			1		P	HAND WIRE	322
GND 07-09 GND 07			807C2		1-30 +	H			2		ė	HAND WIRE	322
GND 07-09 B09E1 1-33 * H 2			BØ8E1		1-31 *	•			1		Þ		322
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GND 07-89 BY 9E2 1-35 * H 1 P HAND WIRE GND 07-89 BY 9B2 1-36 * H 2 P HAND WIRE GND 07-89 BY 9B2 1-37 * H 1 P HAND WIRE GND 07-89 BY 9B2 1-38 * H 2 P HAND WIRE GND 07-89 BY 1 1-38 * H 2 P HAND WIRE GND 07-89 BY 1 1-40 * H 2 P HAND WIRE GND 07-89 BY 1 1-40 * H 2 P HAND WIRE GND 07-89 BY 1 1-40 * H 2 P HAND WIRE GND 07-89 BY 1 1-42 * H 2 P HAND WIRE GND 07-89 CY 02 1-41 * H 2 P HAND WIRE GND 07-89 CY 02 1-43 * H 1 P HAND WIRE GND 07-89 CY 02 1-44 * H 2 P HAND WIRE GND 07-89 CY 02 1-45 * H 2 P HAND WIRE GND 07-89 CY 9T1 1-46 * H 2 P HAND WIRE GND 07-89 CY 9T1 1-48 * H 2 P HAND WIRE GND 07-89 CY 8T1 F HAND WIRE GND 07-89 DY -89 DY			BØ9E1		1-33 *	H			1		P		322
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GND 07-09 GND 07			CØ8C2		1-44 *	Н			ž		è		322
GND 07-09 GND 07-09 GND 07-09 C08T1 1-47 * H 1			CØ9C2		1-45 #	H			ī		P		322
GND 07-09			CØ9T1		1-46 +	H			Ž	The second second	é		322
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					1-55 +	H			1		Þ	HAND WIRE	322
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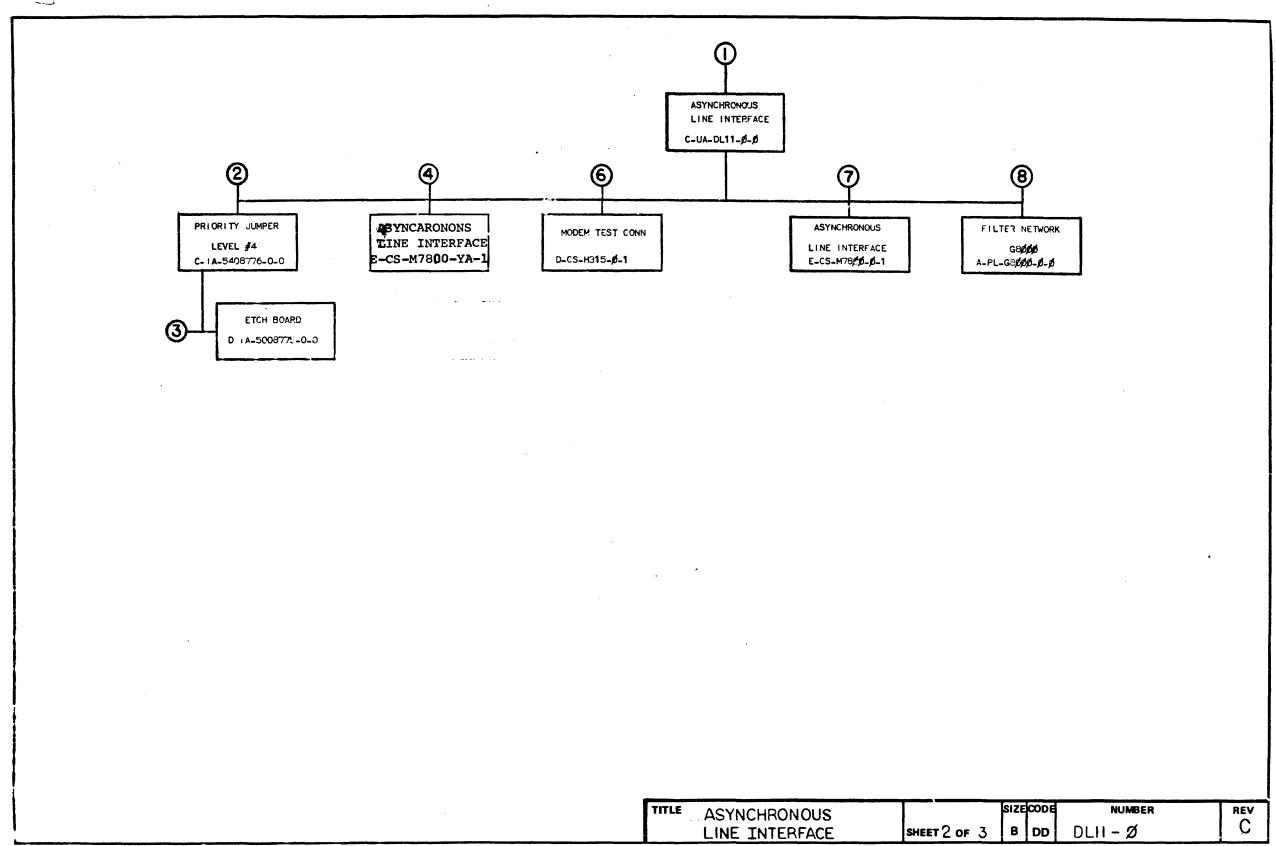
RÛN NAME	A/P PIN	ORDER BAY -		DRAW RV PG Y X	-	REMARKS LENGTH		
	NAME	ORDER BAY - PIN ORDER	Q	DRAW RV PG Y X	#	HEMARKS LENGTH	EXCEPTIONS	RUN NUMBE
PØ IN							HAND MEDE	-
PØ IN	D06E2	1-02 *	Ħ			<u>.</u>	HAND WIRE	338
PØ SA	DØ7E2	1-03 *				n	TO HERE	338
PØ ŠA	D05F1	1-01 *	_ <u>M</u>		<u> </u>	A CONTRACT OF THE CONTRACT OF	HAND WIRE	339
PĎ ŠÃ	DØ6F1	1-02 +	H		1	Ţ.	HAND WIRE	339
PŴ ŠB	DØ7F1	1-03 *	4.				TO HERE	339
PØ Se	DØ5F2	1-01 *	H		2	r P	HAND WIRE	34Ø 34Ø
PØ ŠB	DØ6F2 DØ7F2	1-02 *	Н		7	•	HAND WIRE TO HERE	340
PÎ IN	DØ5E1	1-03 +	ш		2	D C	HAND WIRE	341
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PI IN	D07E1	1-03 *	Н		*	r	TO HERE	341
P1 SA	DØ501	1-01 *	н		2	p	HAND WIRE	342
PI ŠĀ	00001	1-02 *	H		1	نا	HAND WIRE	342
PÎ SÂ	00701	1-03 +	п		•	'.	TO HERE	342
P1 \$8	00502	1-01 *	н		2	P	HAND WIRE	343
PÎ SB	DØ602	1-02 +	Н	The same of the sa	ī	P	HAND WIRE	343
P1 \$8	00702	1-03 +	••		-	·-	TO HERE	343
PCC ANALOG CLUCK	H FÖ1R1	1-01 *	н	1	1	IWISTED PAIR	HAND WIRE	344
PCC ANALOG CLOCK	H F03U1	1-02 +	H		_	1 1	H TO WHERE	_
PČC DISČEK D	H CØZFZ	1-01 +	н		1	IWISTED PAIR	HAND WIRE	350
PÇC DÎS CLK	H DØ3N2	1=02 *	• • •		_	1 · • · · · · · · · · · · · · · · · · ·	TO HERE	350
READ	H C06U2	1-01 *	Н		1		HAND WIRE	404
RĒAD	H C07U2	1=02 *	• • •		-	-	TO HERE	404
RĒS 1	EØ5C1	1-01 +	н		1	P	HAND WIRE	405
RĒS 1	EØ6C1	1-02 *			-	-	TO HERE	405
RĒŠ 2	E0581	1-01 *	н		1	[—] Р	HAND WIRE	406
RES 2	E0681	1-02 *	• • •		_	-	TO HERE	406
SABR CHAR SCALE (1)	H BUZM1				2		1-PIN RUN	407
THERM 1	EØ5A1	1-01 +	н		ī	P	HAND WIRE	449
THERM 1	EDGAL	1-02 +			•		TO HERE	449
TNAR	H CØ6V2	1-01 *	н		1	P	HAND WIRE	450
TNAR	H CØ7V2	1-02 *	•		7	•	TO HERE	450
ŤŴĬĎ	H CØ6V1	1-01 *	Н		1	P	HAND WIRE	451
TWID	H CØ7V1	1-02 +			.7.	and the same of th	TO HERE	451
VR ANALOG +15V	AØ102	• -					1-PIN RUN	468
VR ANALOG -15V	ABIEZ						1=PIN RUN	469
NAMDA	FØ5K2	1-01 +	Н		1	P	HAND WIRE	471
NUMDA	FØ6K2	1-02 +	•		. 7	-	TO HERE	471
XNWD1	FØ5L2	1-01 *	Н		1	P	HAND WIRE	472
XNWD1	FØ6L2	1-02 +				्यू	TO HERE	472
XNMDS	F05M2	1-01 +	H		1	P	HAND WIRE	473
XNWD2	FØ6M2	1-02 +			**	1-	TO HERE	473
XNWD3	FØ5N2	1-01 +	H		1	P	HAND WIRE	474
XNWD3	FØ6N2	1-02 +			-	•	TO HERE	474
XNWD4	FØ5P2	1-01 *	Н		1	Р	HAND WIRE	475
XNWD4	FØ6P2	1-02 +				the second of th	TO HERE	475
XNWD5	FØ5R2	1-01 +	H		1	P	HAND WIRE	476
XNWD5	FØ6R2	1-02 +	• • •		_	· <u>·</u>	TO HERE	476
XNWD6	FØ5S2	1-01 +	Н		1	ę	HAND WIRE	477
XNWD6	FØ6S2	1-02 +	• • •		-	' -	TO HERE	477
XNWD7	FØ5T2	1-01 *	н		1		HAND WIRE	478
XNWD7	FØ6T2	1-02					TO HERE	478
XPRDØ	FØ5L1	1-01 +	H		1	ę	HAND WIRE	479

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RUN NAME		PIN	ORDER	BAY -	Q	DRAW RV PG Y	X z	HEMARKS	LENGTH	EXCEPTIONS	RUN
= · · · · · · · · · ·		NAME	PIN	ORDER	•	ANAH MA CA Y	F: -	GEHANNO	Prinditu	EVOELITONS	NUMBER
			•	• •							NUMBER
XERDØ		FØ6L1		1-02 *						TU HERE	479
XPRD1		FØ5M1		1-01 *	Н		1		P	HAND WIRE	482
XPRD1		FØ6M1		1-02 +						TO HERE	480
XPRD2		FØ5N1		1-01 *	Н		1		P	HAND WIRE	481
XPRD2		FØ6N1		1-02 *						TO HERE	481
XPRD3		FØ5P1		1-01 *	Н		1		P	HÀND WIRE	482
XPRD3		FØ6P1		1-02 +						TO HERE	482
XPRD4 XPRD4		FØ5R4		1-01 *	Η		1		P	HAND WIRE	483
XPRD5		FØ6R1		1-02 +					_	TO HERE	483
XPRD5		FØ5S1		1-01 *	H		1		Š	HAND WIRE	484
XPRD6		FØ6\$1 FØ5U2		1-02 *						TO HERE	484
XPRD6		FØ6U2		1-01 *	H		1		Ė.	HAND WIRE	485
XPRD7		FØ5V2		-	ш		4		6	TO HERE	485
XPRD7		FØ6V2		1-01 *	Н		1		P	HAND WIRE	486
XS ØØ		CØ5R2		1-01 +	н		1		ę	TO HERE	486
xS ØØ		CØ6R2		1-02 +	п		•		C .	HAND WIRE TO HERE	487 487
XS Ø1		CØ551		1-01 *	н		1		P	HAND WIRE	407 488
xā Ø1		C0651		1-02 *	П		•		r.	TO HERE	488
x\$ Ø2		CØ552		1-01 +	Н		1		Р	HAND WIRE	489
XŠ Ø2		CØ6S2		1-02 4	• •		•		'.	TO HERE	489
XS Ø3		CØ5T2		1-01 *	н		1		þ	HAND WIRE	490
X\$ 03		CØ6T2		1-02 +					`•	TO HERE	490
X\$ Ø4		FØ5C1		1-01 *	H		1		P	HAND WIRE	491
X5 Ø4		FØ6C1		1-02 *					-	TO HERE	491
XS Ø5		FØ501		1-01 *	Н		1		P	HAND WIRE	492
x\$ Ø5		FØ601		1-02 *					•	TO HERE	492
X\$ 06		FØ502		1-01 *	H		1		P	HAND WIRE	493
X5 Ø6		FØ6D2		1-02 *						TO HERE	493
XS 07 XS 07		FØ5E1		1-01 *	H		1		P.	HAND WIRE	494
XŞ Ø8		FØ6E1		1-02 +						TO HERE	494
XS 08		FØSEZ		1-01 *	H		1		Ŗ	HAND WIRE	495
XS 09		FØ6E2		1-02 *					_	TO HERE	495
xŠ 29		FØ5F1		1-01 *	Ħ		1		P	HAND WIRE	496
X\$ 10		F06F1 F05F2		1-02 *					m	TO HERE	496
XŠ 10		FØ6F2		1-01 *	Н		1		P	HAND WIRE	497
x\$ 11		FØ5H1		1-02 *	6.1		4		•	TO HERE	497
x\$ 11		FØ6H1		1-02 *	H		1		Ė	HAND WIRE	498
XS 12		FØ5H2		1-01 *	н		1		P	TO HERE	498
XS 12		FØ6H2		1-02 +	п		•		<u>r</u>	HAND WIRE TO HERE	499 499
XŞ 13		FØ5J1		1-01 +	H		1		þ	HAND WIRE	
x5 13		FØ6J1		1-02 +	71		•		ć	TO HERE	500 500
X§ 14		FØ5J2		1-01 *	н		1		ρ .	HAND WIRE	501
X <u>\$</u> 14		FØ6JZ		1-02 +	• •		•			TO HERE	501 501
XS 15		FØ5K1	•	1-01 *	H	en en en en en en en en en en en en en e	· · · · · · · · · · · · · · · · · · ·		No. of the contract of the con	HAND WIRE	502 501
X5 15		FØ6K1		1-02 *			-		'.	TO HERE	502
YNWDØ		CØ581		1-01 +	H		1			HAND WIRE	503
YNWDU		CØ6B1		1-02 +			•		·.	TO HERE	503
YNWD1		CØFD2		1-01 +	H		1			HAND WIRE	504
YNWD1		CØ6D2		1-02 +			-		•	TO HERE	504
YNWDZ		COSES		1-01 *	Н		1			HAND WIRE	505
NWDS		COSES		1-02 *			-			TO HERE	505
										· · · · · · · ·	

GI40.B		7(17) 06/22/72					1=MAH=73	6152	PAGE 16
RUN NAME	A/P PIN NAME	ORDER BAY - Pin Order	Q	DRAW RV PG Y X	*	HEMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
EGWAY	CUSFS	1-01 +	н		1		ρ	HAND WIRE	506
EGWNY	C06F2	1-02 +	'.'		₹.		'-	TO HERE	5Ø6
YNWD4	CØ5H2	1-01 *	H		1		g	HAND WIRE	507
YNWD4	C06H2	1-02 *	' '				'-	TO HERE	507
YNWD5	CØ5J2	1-01 *	H		1		P	HAND WIRE	508
YNWD5	CØ6J2	1-02 *			-		•	TO HERE	508
ACIMAL	CØ5K2	1-01 *	H		1		Þ	HAND WIRE	509
AUMUA 9	CØ6K2	1-82 *	'-'				'-	TO HERE	509
YNWD7	C05L2	1-01 *	н		1		p	HAND WIRE	51Ø
YNWD7	CÕGLZ	1-02 *			•		'.	TO HERE	510
YPRDØ	CØ5A1	1-01 *	H		1		9	HAND WIRE	511
YPRDØ	COGAI	1-02 *	'.'		•		<u>'-</u>	TO HERE	511
YPRD1	CØ5C1	1-01 *	H		1		9	HAND WIRE	512
YPRO1	CØ6C1	1-02 *			•		<u>'-</u>	TO HERE	512
YPRD2	CØ501	1-01 +	ш		1		Þ	HAND WIRE	513
YPRD2	C0601	1-02 +		THE PARTY OF THE P	. 7 .		and the second	TO HERE	513
YPR03	C05E1	1-01 *	H		1		P	HAND WIRE	514
YPRD3	CDSE1	1-02 +	• • •		*		'-	TO HERE	514
YPRD4	CØ5F1	1-01 +	H		1		9	HAND WIRE	515
YPRD4	CØ6F1	1-02 +	- 7		7		<u>-</u>	TO HERE	515
YPR05	C05H1	1-01 *	н		1		Ð	HAND WIRE	516
YPRD5	CD6H1	1-02 +					•	TO HERE	516
YPRD6	C05J1	1-01 *	н		1		P	HAND WIRE	517
YPRD6	CØ6J1	1-02 +			•		<u>,</u>	TO HERE	517
YPRD7	CØ9K1	1-01 +	н		1		Ð	HAND WIRE	518
YPRD7	CĎ6K1	1-02 +	17		*		5	TO HERE	518
YS 00	CØ5L1	1-01 *	ш		1		0	HAND WIRE	519
Y\$ 00	CØ6L1	1-02 +			*		Ţ	TO HERE	519
Y\$ 01	CØ5M1	1-01 *	н		1		p	HAND WIRE	520
YŠ 01	CØ6M1	1-02 +	П		•		•	TO HERE	52Ø
YS 02	CØ5M2	1-01 +	н		4		p	HAND WIRE	521
YS 02	CØ6M2	1-02 +			*		Ţ	TO HERE	521
Y\$ 03	CØ5N1	1-01 *	н		1		p	HAND WIRE	522
Y5 03	COONS	1-02 +				a er manar en e	Ţ.	TO HERE	522
YS 04	CØ5N2	1-01 +	H		1		P	HAND WIRE	523
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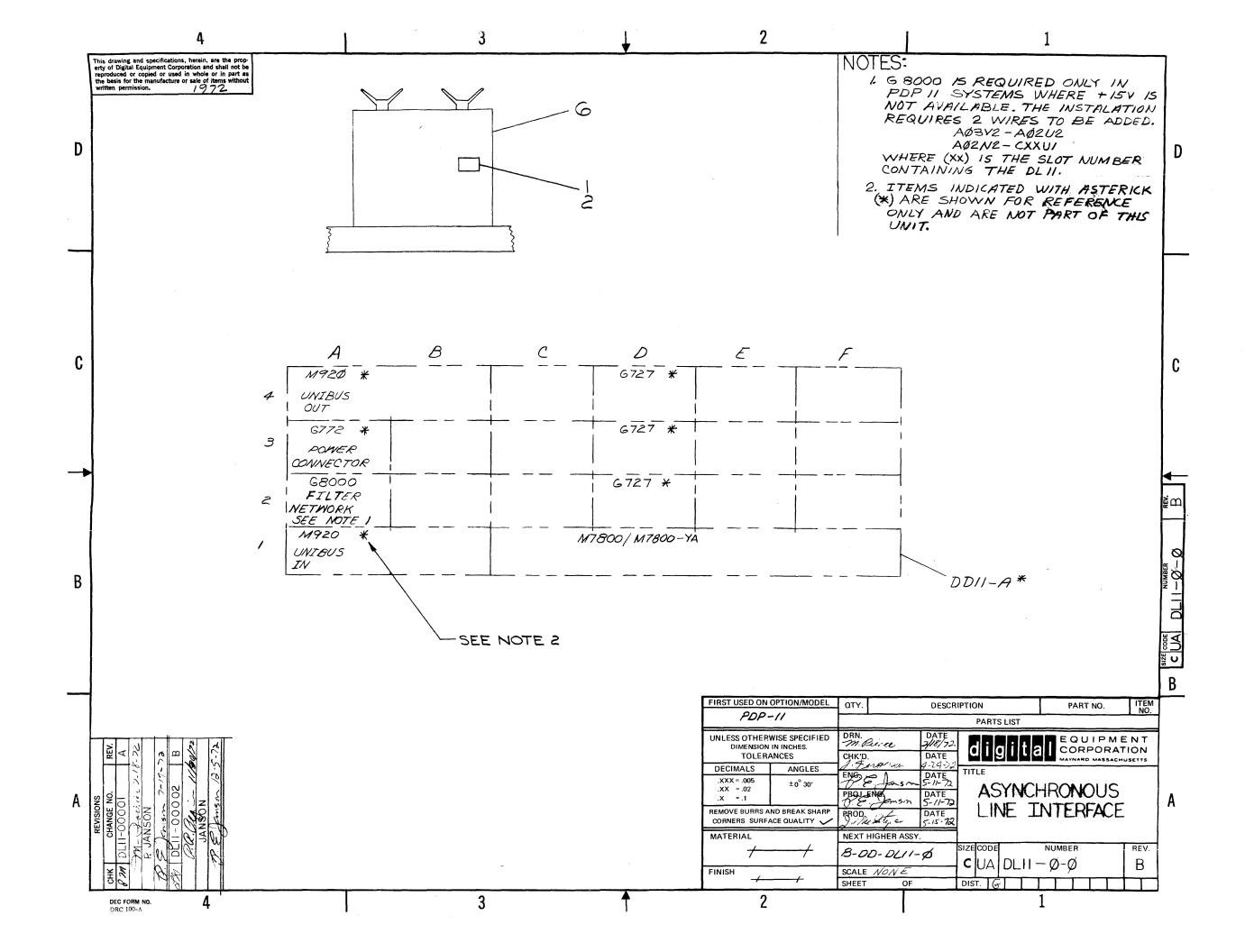


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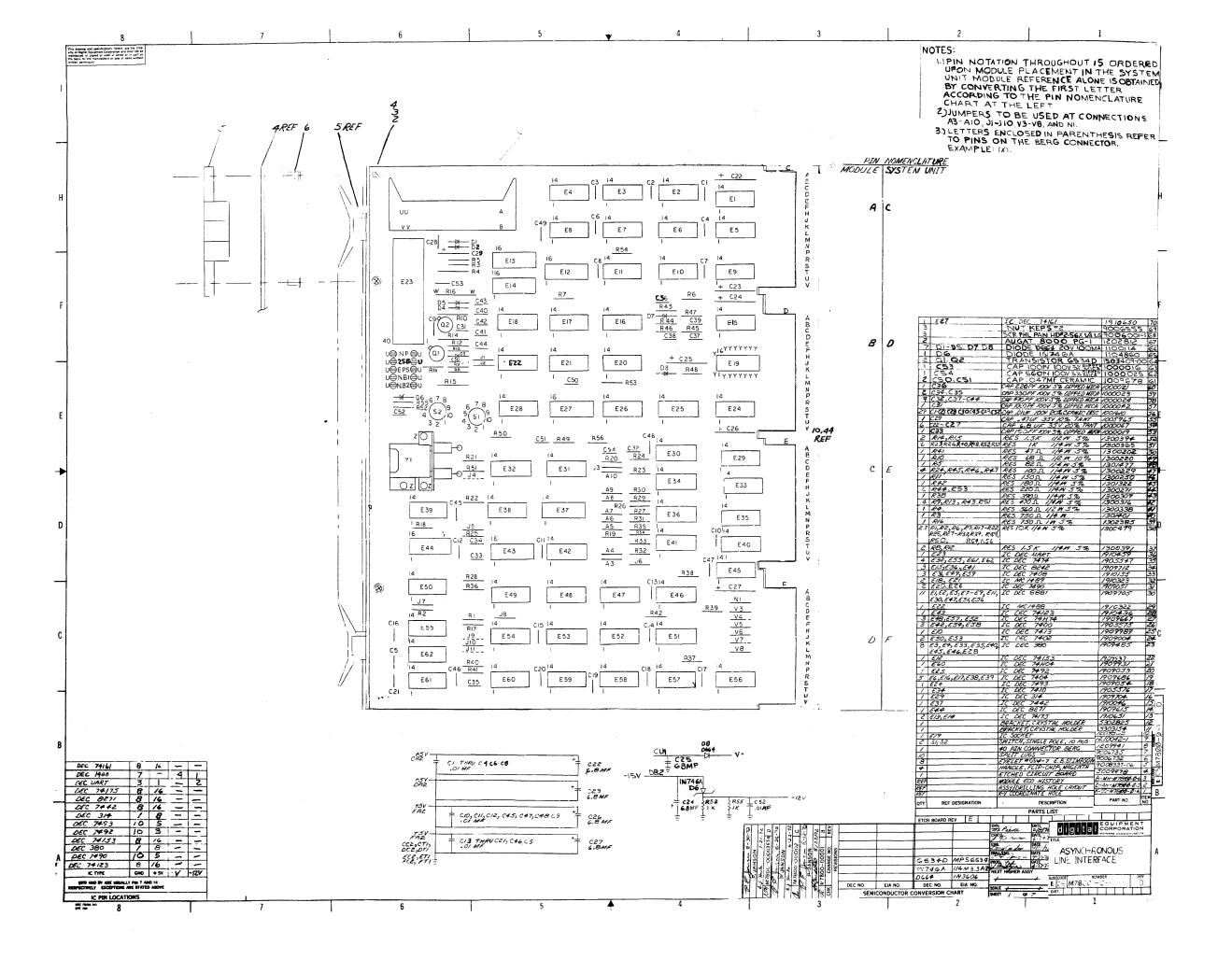
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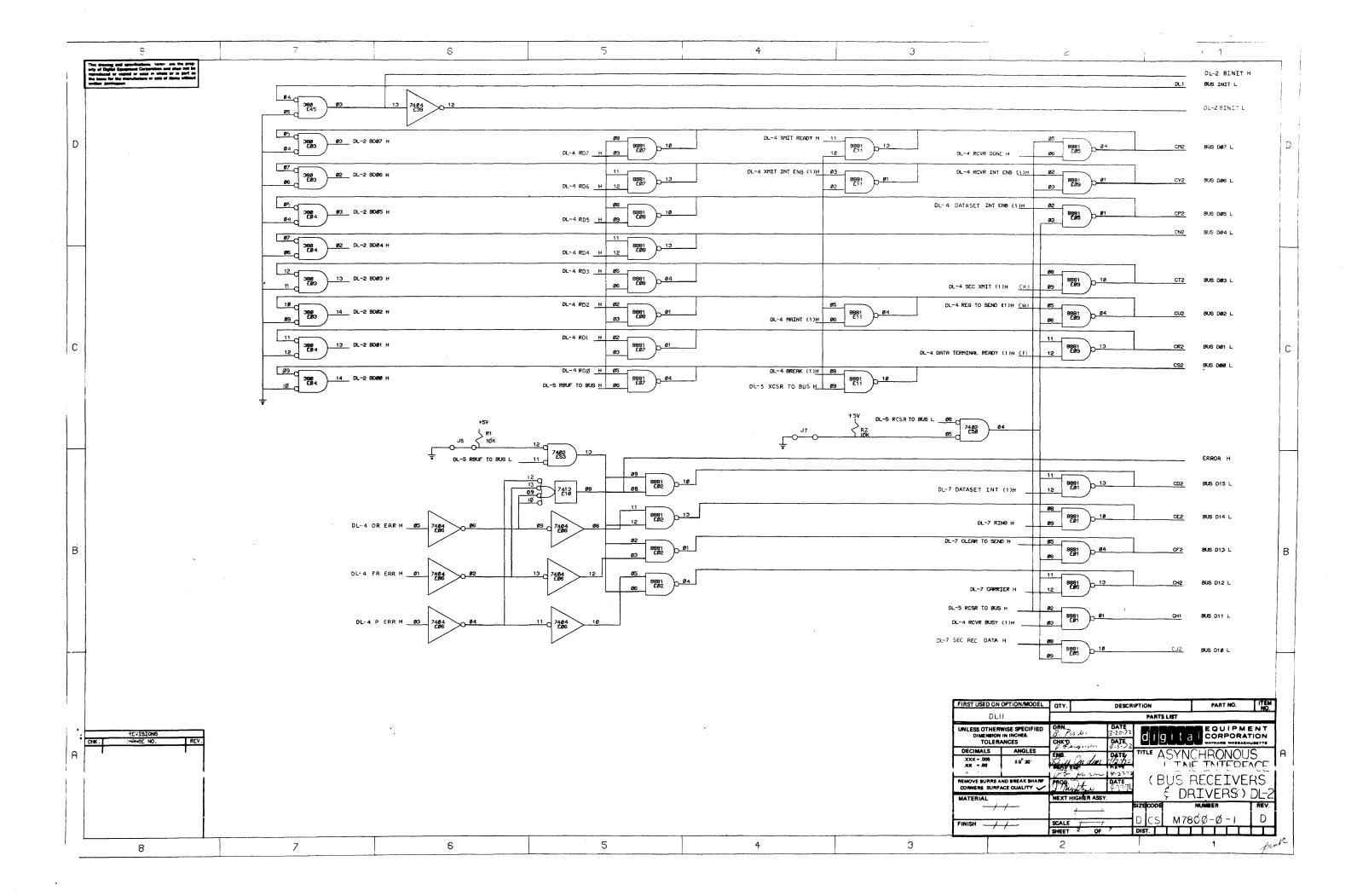
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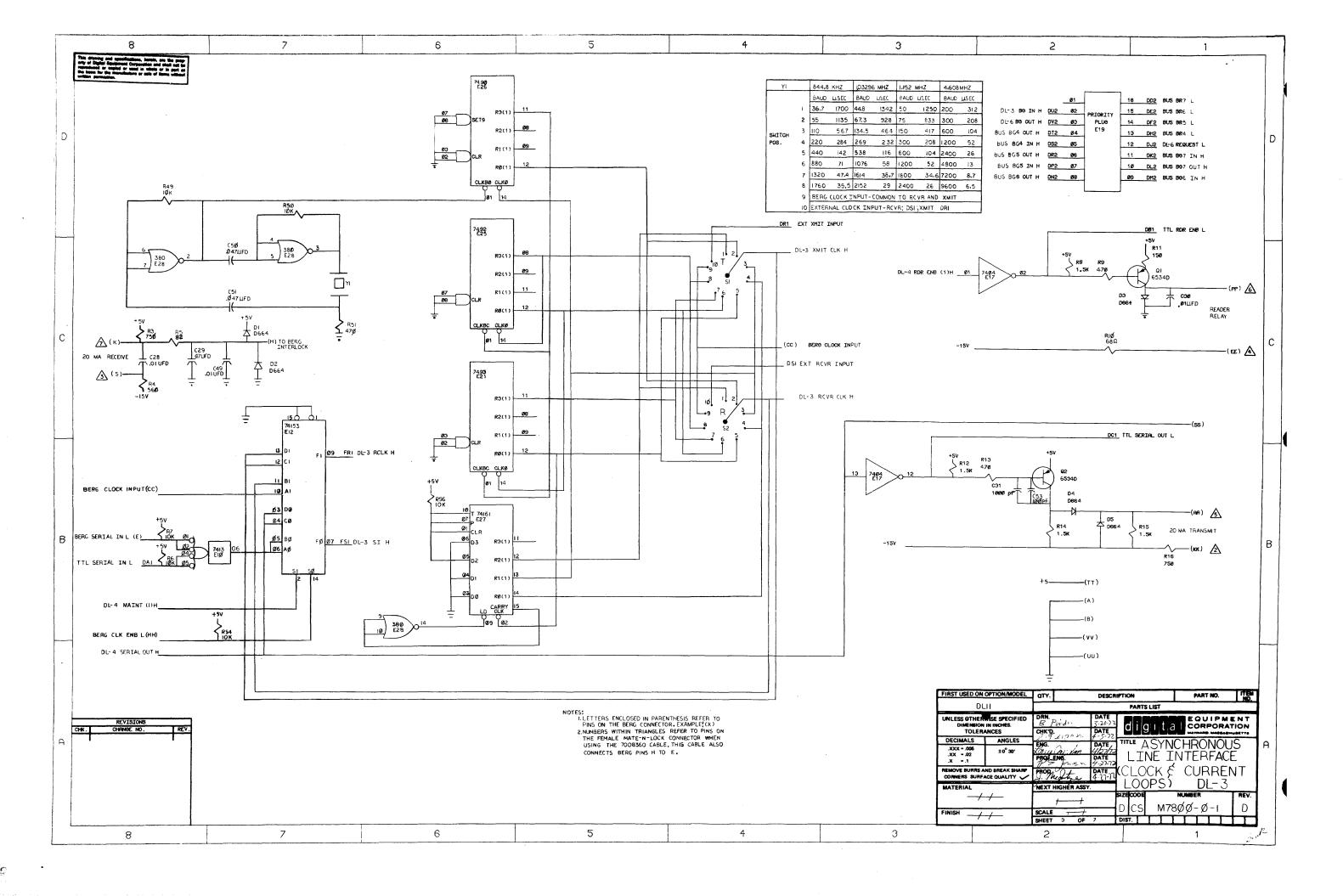


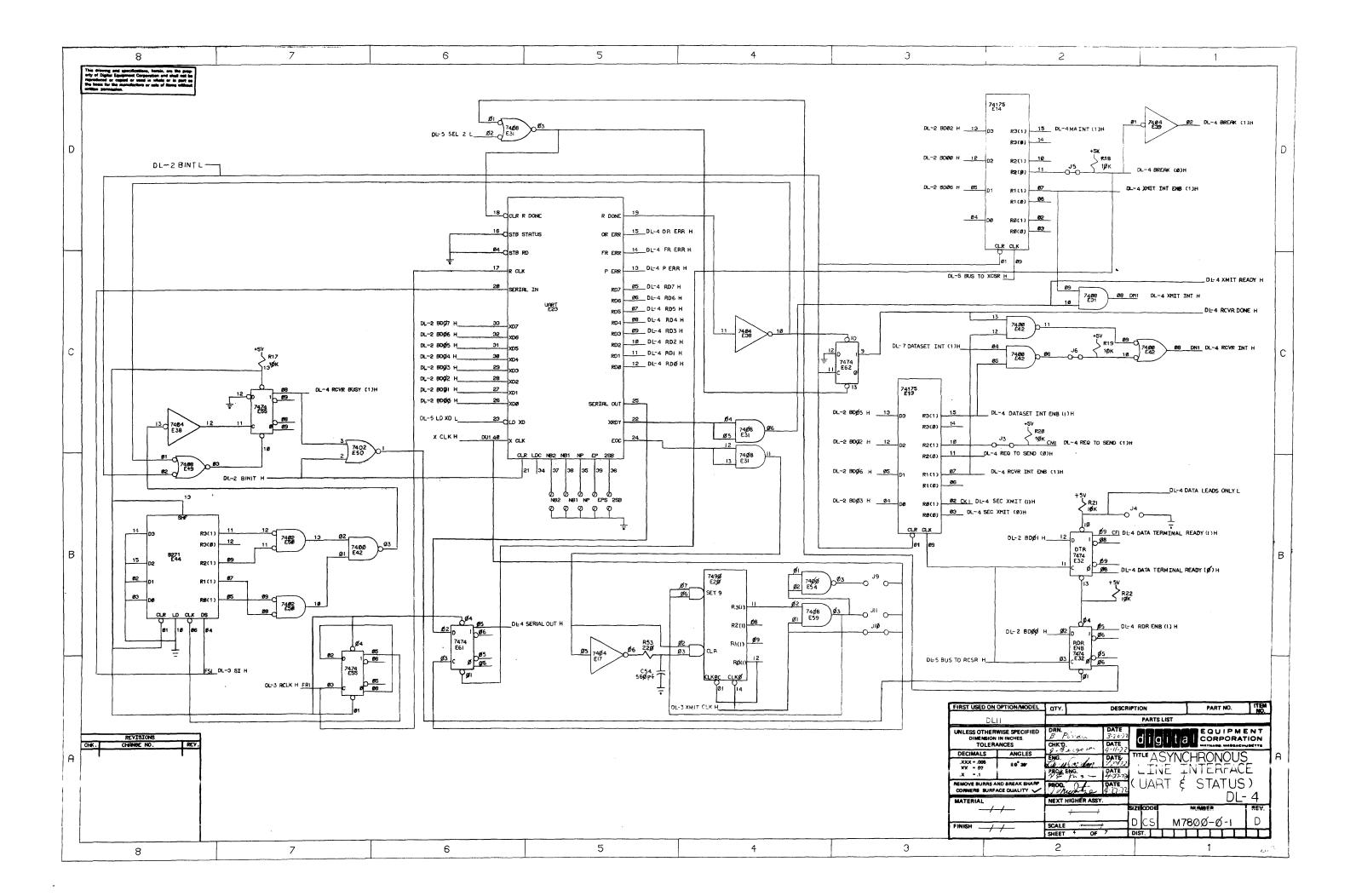
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2	C-1A-5408778-0-0	PRIORITY JUMPER LEVEL #5 1		4
3	D-UA-BCØ5C-25	CABLE, MODEM BCØ5C - 1 - 1 1		4
4	D-IA-7 008360-0-0	CABLE ASSEMBLY (KL8E) 1 - 1		4
5	D-CS-H315-Ø-1	MODEM TEST CONNECTOR A/R See Note	2	
6	E-CS-M7800-Ø-1	ASYNCHRONOUS LINE INTERFACE - 1 + 1 1		
7	A-PL-G8ØØØ-Ø-Ø	FILTER NETWORK - A/RA/R See Note	1	
8		CRYSTAL A/RA/RA/RA/R See Note	3	
9	E-CS-M7800-YA-1	ASYNCHRONOUS LINE INTERFACE 1 - 1		
	NOTES: 1.	G8000 IS REQUIRED ONLY IN PDP 11		_
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		AVAILABLE. ONE PER DD11-A.		
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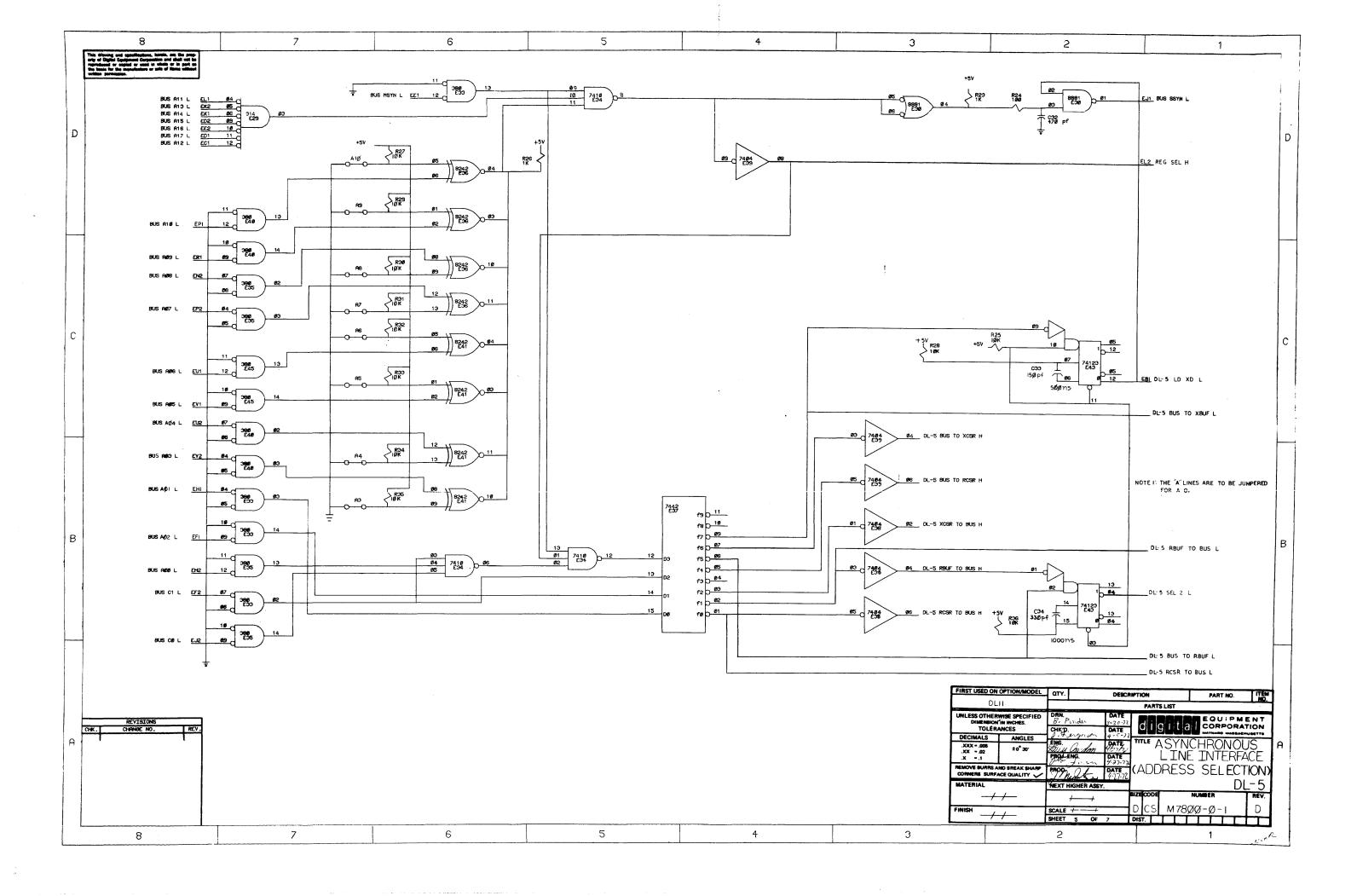
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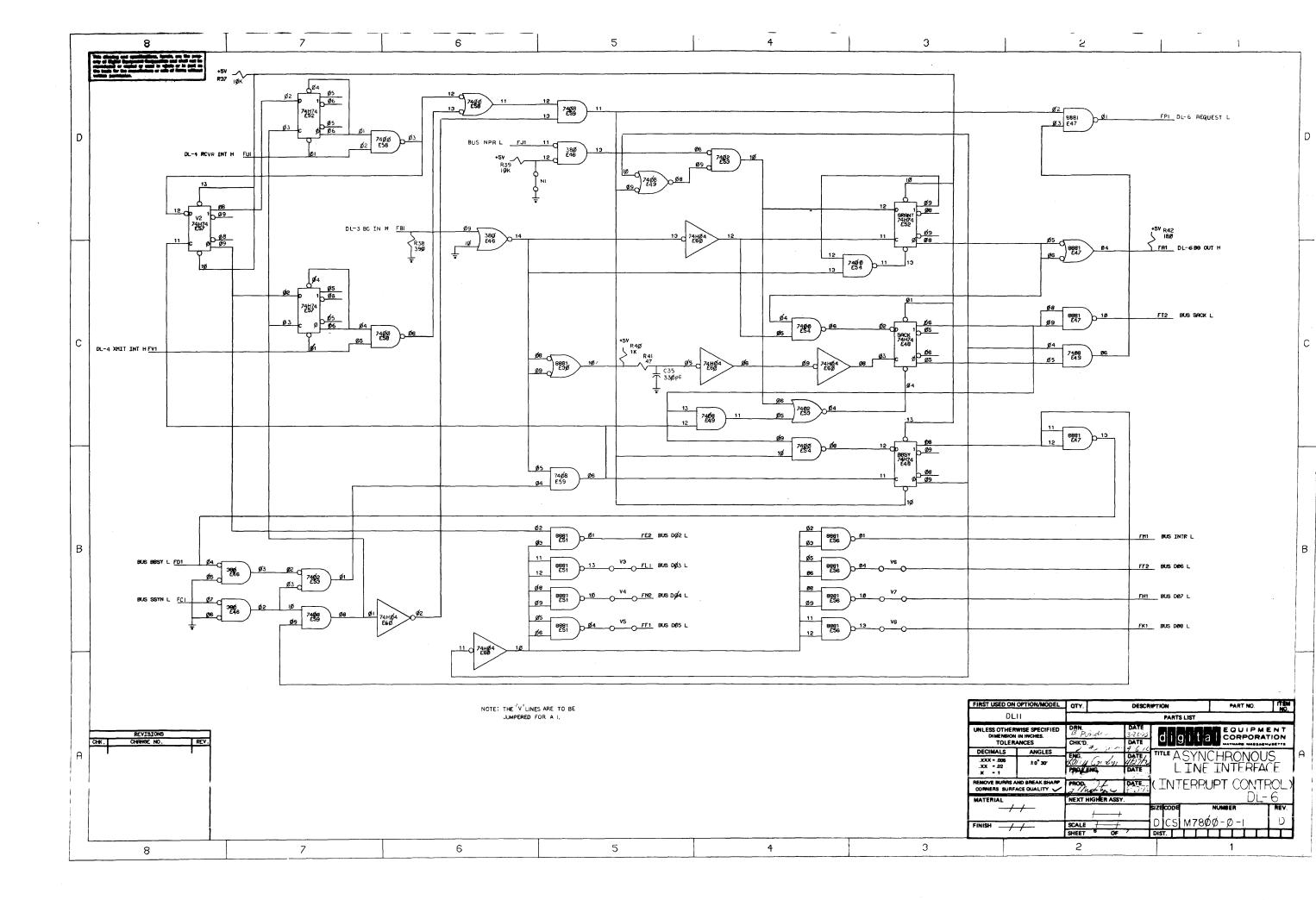


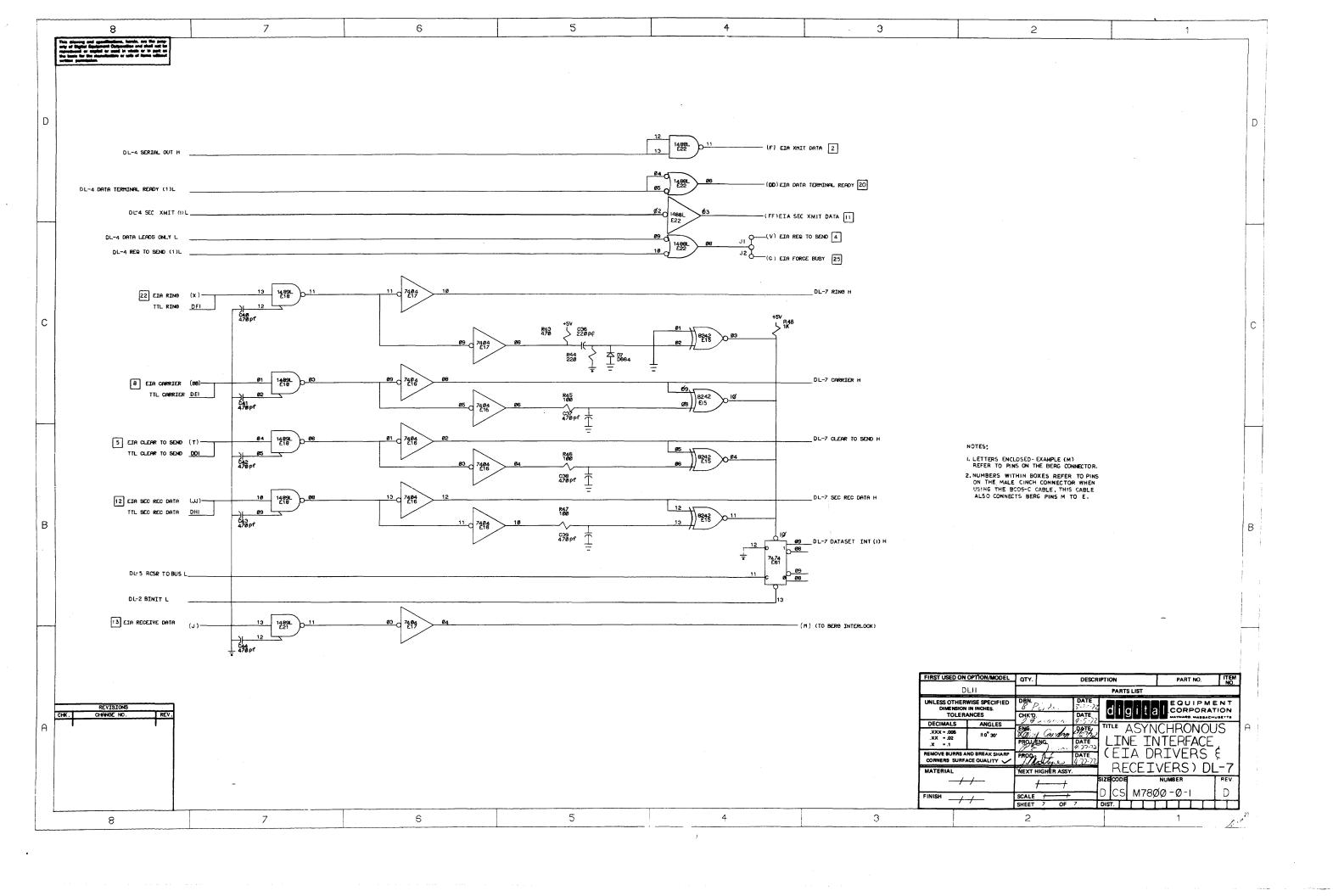


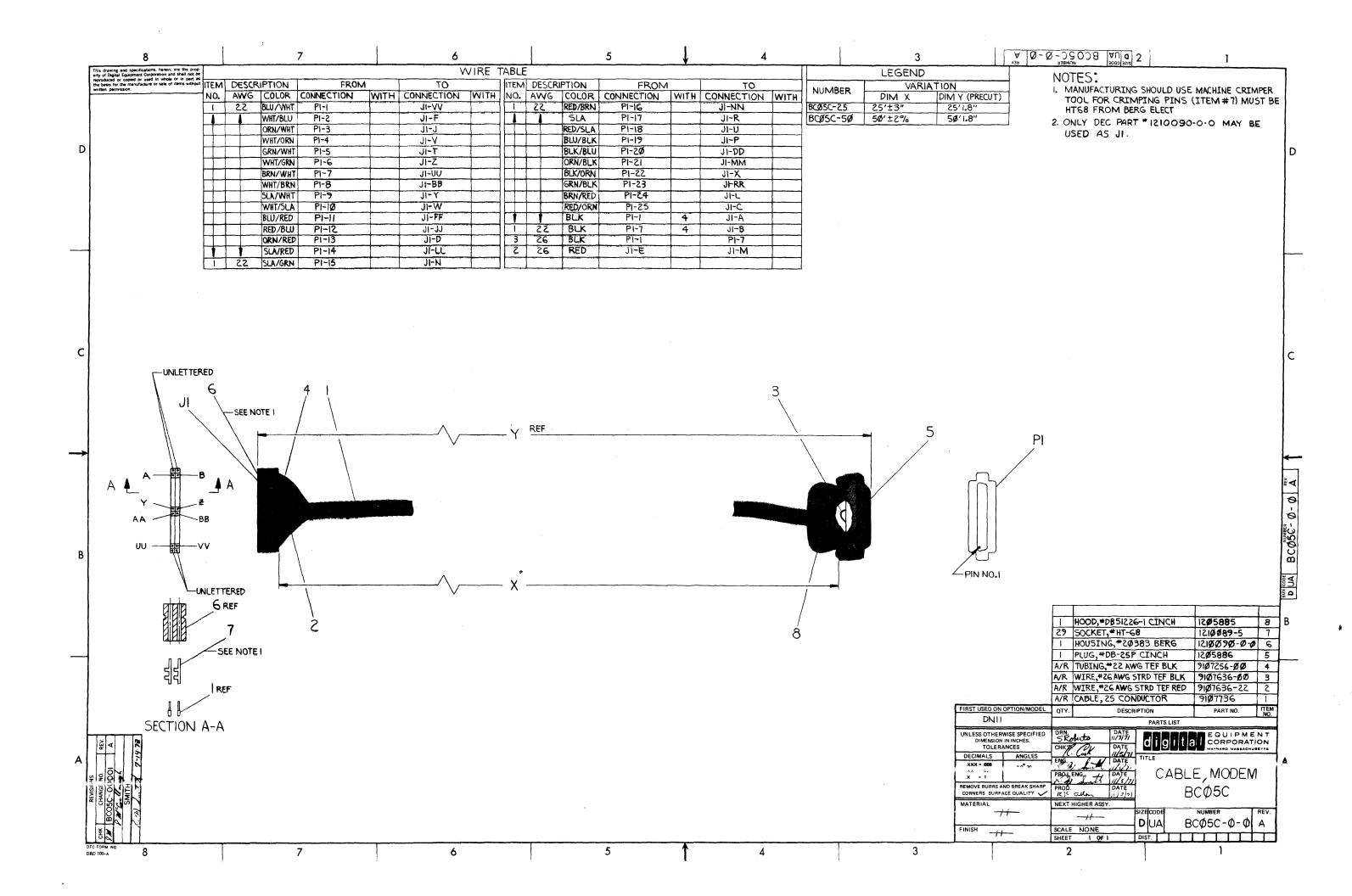


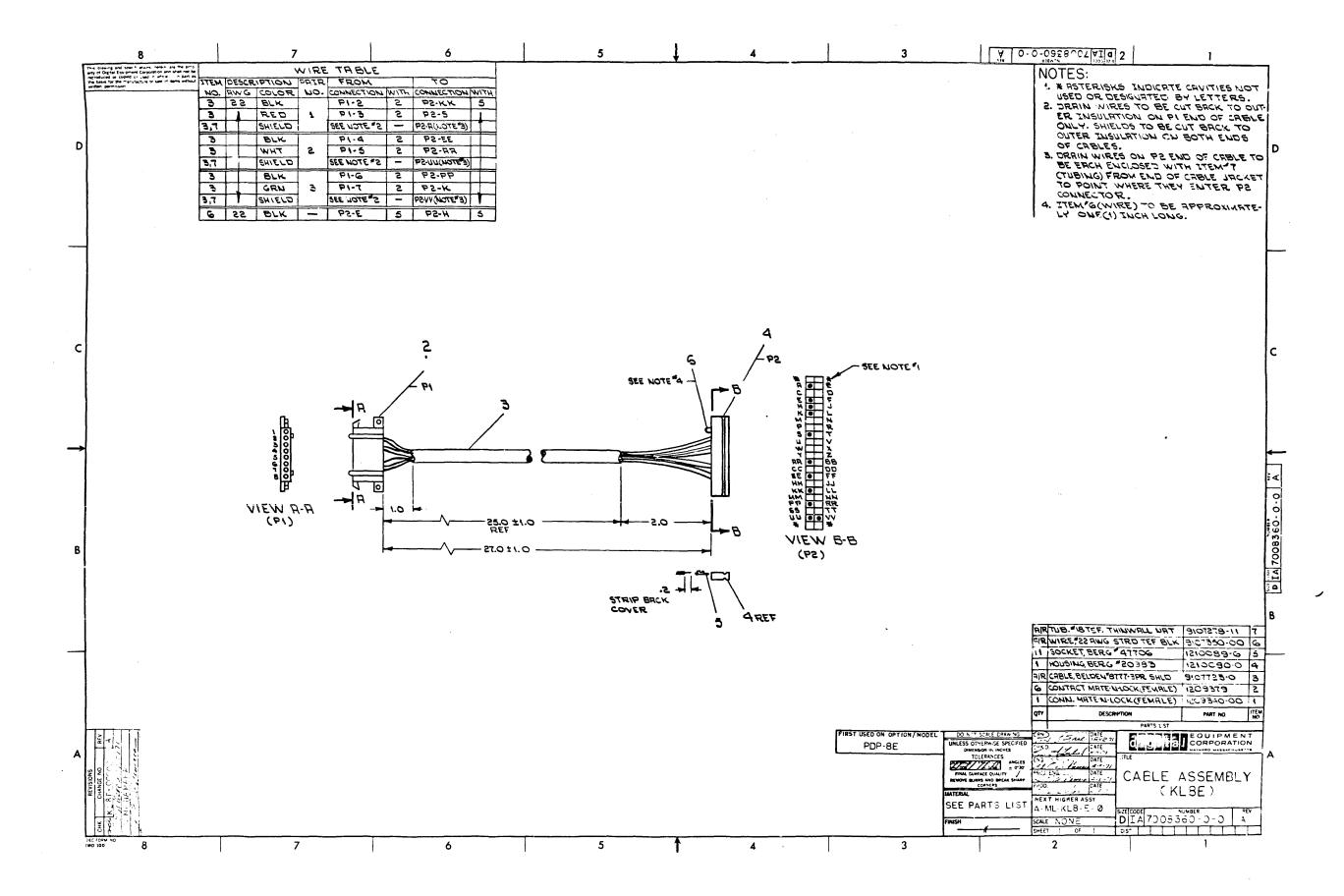


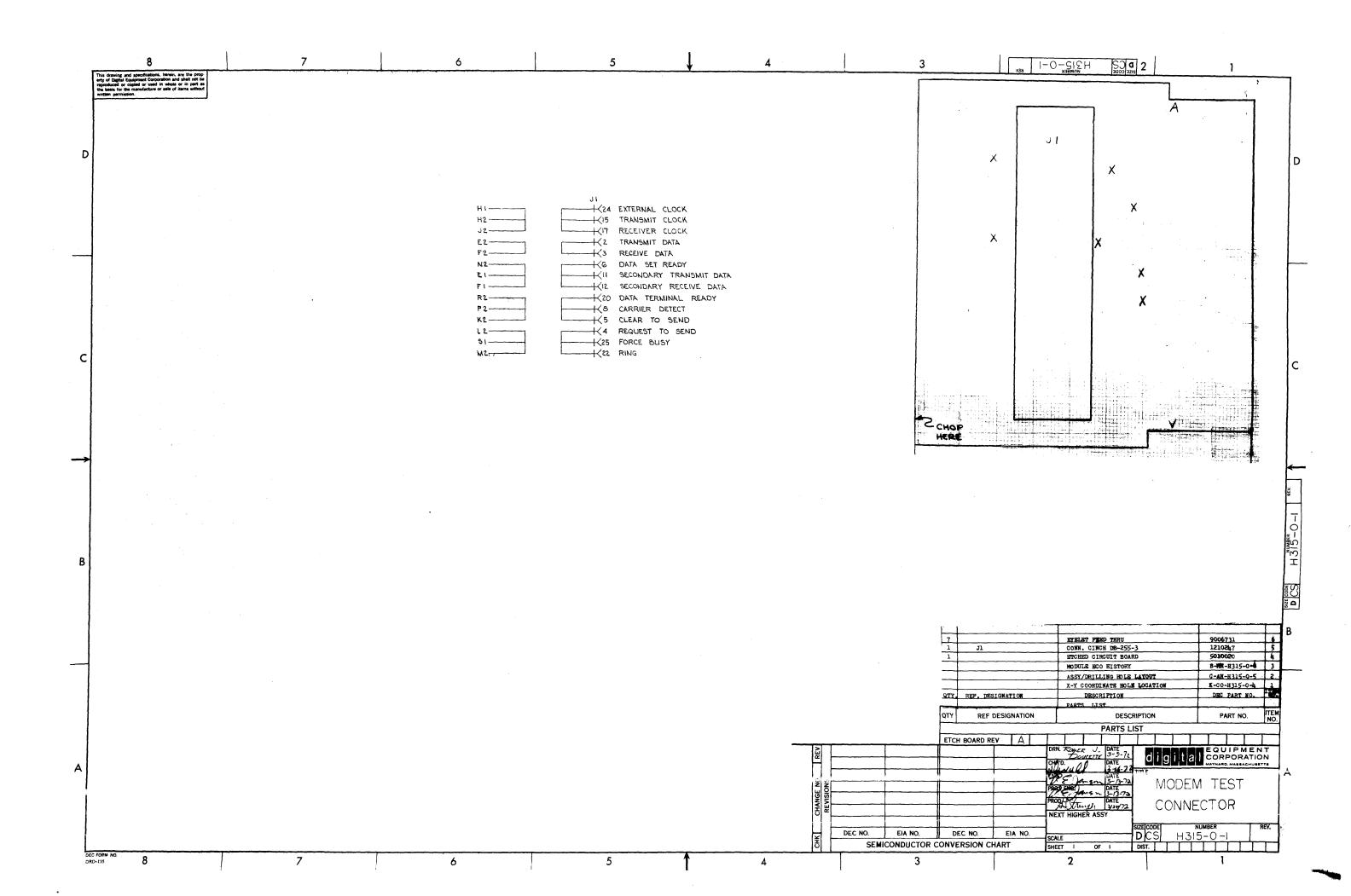




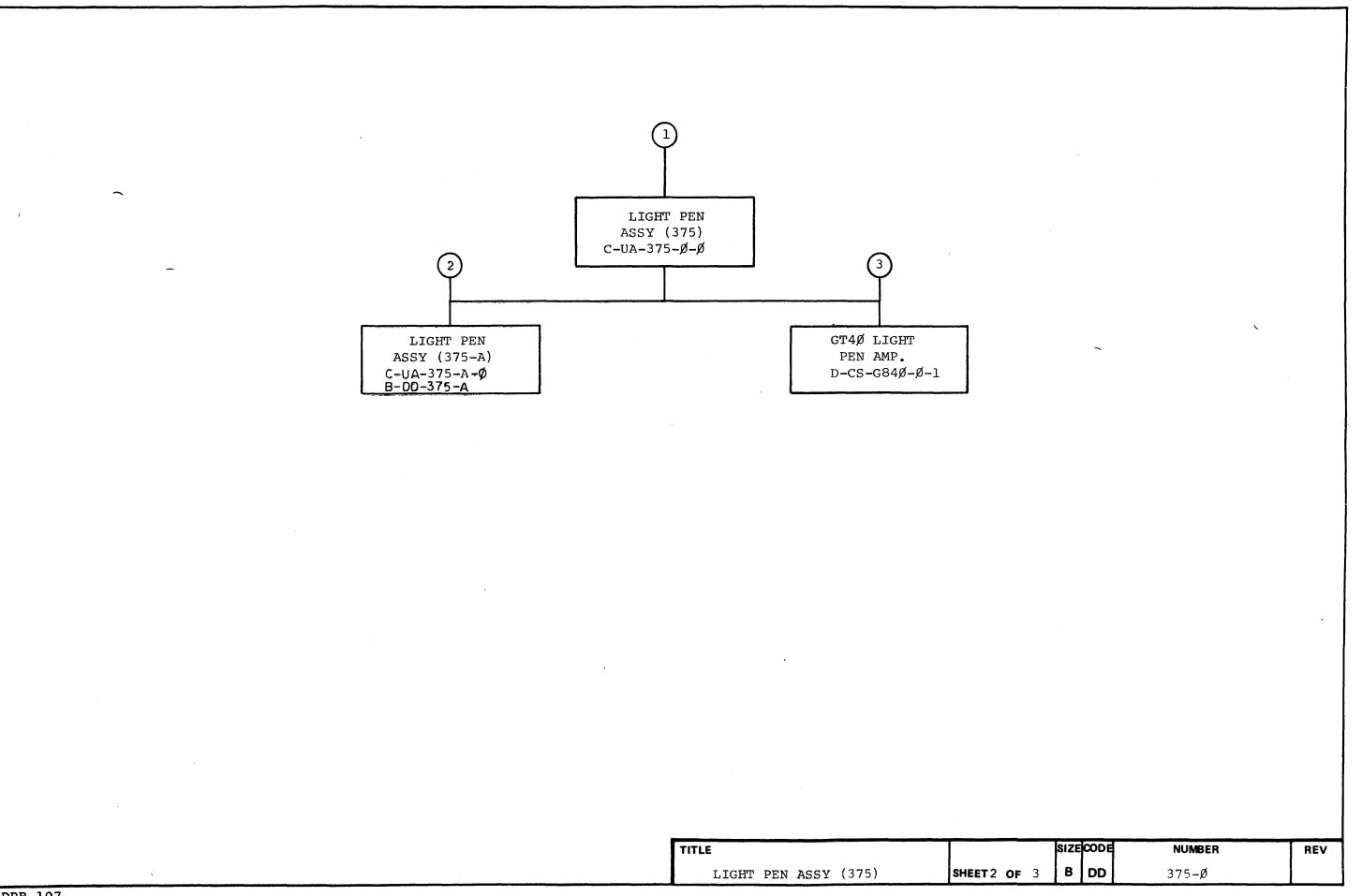








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